

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: mvjfm@mvubr.mv.lucent.com (James M Fitton +1 508 960 2577)  
Subject: [7739] 160m  
Message-ID: <199701021348.IAA24843@alig1.firewall.lucent.com>

Bob, AE4IC

Im ready for a schedule on 160m,  
anywhere from 1.800 - 1.8800 Mhz.

Let's try around 1.845 Mhz at 8 p.m EST  
tonite, Thursday, 1/2/97

(1/3/97 - UTC)

0100 - 05 I call "CQ QRP" and listen  
0105 - 10 You call  
0115 - 20 I call  
0120 - 30 You call

Good luck from NH !

72/73 Jim Fitton, W1FMR NE-QRP <>< NH

E-MAIL changed to jfitton@lucent.mv.com

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: N4JS <jsielke@pobox.com>  
Subject: [7764] 20M Dead?  
Message-ID: <Pine.LNX.3.95.970102140255.6112A-100000@jsielke.ppp.cyberenet.net>

Hey, is it me? I just fired up the old Argo on 20M, to get ready for a  
shot at FSFD Ark. I can hear about 2 signals! One TTY, and one CW. I even  
tried the IC720A, and it's the same! My Beam LOOKS OK! Is it me, or is 20M  
DEAD?

/ \ / \ / \ / \  
 ( N ) ( 4 ) ( J ) ( S )  
 \\_ / \\_ / \\_ / \\_ /

John L. Sielke n4js@amsat.org  
n4js@pobox.com n4js@hotmail.com n4js@n4js.ampr.org  
<http://www.pobox.com/~n4js>

QRP-L #884 QCWA

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Dave.Ackrill@westwood45.powergen.co.uk  
Subject: [7736] 80M QRP Beacon  
Message-ID: <970102125247Z\*/G=Dave/S=Ackrill/O=westwood45/PRMD=POWERGEN/  
ADMD=CWMAIL/C=GB@MHS>

I'm planning to turn the QRP beacon on again this afternoon (Thursday 2nd January) and leave it running through the evening.

Please take a listen, it will be near the top of the QRP area around 3.576MHz running 3W to a dipole.

I'd be especially interested in reports of the keying characteristics.

Thanks de Dave (G0DJA)

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Russ1031@aol.com  
Subject: [7703] A close call in duck country  
Message-ID: <970101225119\_439287841@emout14.mail.aol.com>

New Year's day in Oregon has been pretty snappy. We've received our fair share of the crummy weather afflicting the West Coast. In our case, that means a McKenzie River that's raging like a beast, and quite a few Douglas firs that have crashed to the ground. This e-mail is being written on a computer powered by our emergency generator, in a room heated by our backup woodstove.

We lost four fir trees, and our neighbor lost 11 (two of which fell on his house, and one of which crushed his car). In light of his hardships, I felt guilty worrying about my antennas. But I'll confess that I ran into the forest at first light, expecting the worst. All my antennas are concealed in trees, which is aesthetically pleasing, but scary when mother nature acts up. I was amazed to find that the stacked tribanders cleverly woven in a 150 foot fir were untouched, and the bisquare, stretched between two trees at 100 feet, was also in fine shape.

Wow, I said to my wife. I can't believe our good luck. We're safe and sound, and the antennas survived. Humpf, she said. At least you got your priorities right.

I replied: you know, QRP must occupy a special position in the scheme of things. Hazards aplenty, yet QRP was spared.

My wife was not born yesterday. She recognizes a bogus theological argument when she hears one. Hey, she said, getting down to important things. Let's see if the road is open to the Vida Cafe, and then let's celebrate our fortune by having a logger's breakfast.

So, we did.

Russ Carpenter, AA7QU, McKenzie River, Oregon

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Hidehiko Komachi" <ja9mat@nsknet.or.jp>  
Subject: [7735] Added item on Homepage.  
Message-ID: <199701021242.VAA03476@po.nsknet.or.jp>

Hello fellows!

Happy new year to you and hope your good work in 1997!

Today I added the Photo of G4OPE's Iambic Keyer Kit offered from G-QRP Club and added a new Link to JE2CDC's WebSite. Please enjoy!

\*\* de,JA9MAT,Hidehiko KOMACHI,E-Mail;ja9mat@nsknet.or.jp \*\*\*  
W.W.Web.Site;<http://www.nsknet.or.jp/~ja9mat/Index.htm>  
Member of JA-QRP#036,G-QRP#9128,Alaska-QRP#025,QRP/L #761...

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: jlarsen@attmail.com (James H Larsen)  
Subject: [7741] al7fs going to bed.1405z  
Message-ID: <jlarsen0021407540>

thnx anyone...everyone. I am going to bed. No joy here.

73,  
jim

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997

From: jlarsen@attmail.com (James H Larsen)  
Subject: [7733] al7fs off til 1330z  
Message-ID: <jlarsen0021141270>

k1Jg  
jim

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: jlarsen@attmail.com (James H Larsen)  
Subject: [7731] al7fs to bed til 1130z  
Message-ID: <jlarsen0021013540>

there is nothing there. i will be back up at 1:30am 1130z.  
jim

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: jlarsen@attmail.com (James H Larsen)  
Subject: [7730] al7fs upand onair  
Message-ID: <jlarsen0021000090>

awfully quiet. lets make noise. 7.041  
  
jim

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: jlarsen@attmail.com (James H Larsen)  
Subject: [7720] al7fs/kh6 020615zJan97 off til 1000z  
Message-ID: <jlarsen0020614120>

Band is not good enuf to stay on 7.041 for now. Any suggestions on freq to use other than 041? What is clear? higher?

only heard N9IGE/5 calling cq. called twice..then ige went away. did not respond.

zk1di calling con 10.104

I'll be back on at 1000z until the bands chase me off. 7.041 for now.

73,  
jim

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: jlarsen@attmail.com (James H Larsen)  
Subject: [7713] al7fs/kh6 020513zJan97 Operating Info  
Message-ID: <jlarsen0020515280>

Just walked in the door 0512z. Will be on 7.041+- in about 10-15 min.

I will try to operate until at least 0700z if there is any hope. Will post to qrp-1 if I shiut down.

I will be back on again 1000z-1300z same rules.

Please pray to the propagation gods for me.

73,  
Jim

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: jlarsen@attmail.com (James H Larsen)  
Subject: [7728] al7fs/kh6 will be on 40 mtr 1000z  
Message-ID: <jlarsen0020753370>

gpoing to bed now even though i just copied w1bfn on 40. also hearing JAs.

I'll be on in 2 hours. 1000z 7.041 but also tuning around if no answers.

73,  
jim

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Jess Gypin <jessqrp@concentric.net>  
Subject: [7707] And on the subject of headphones.....WGA set  
Message-ID: <32CAC5A9.3124@concentric.net>

Just a quick comment on phones. I have been using the RS comm set with the NW40 and jsut for kicks, plugged the WGA kit phones in for a comparison. There is no comparison. I will have to use them more. These are instruments compared to the RS set. Very comfortable and boy do they make the signals pop! With the fidelity combined with the cans, they really help with the weak ones. I was working a guy QRP to QRp and he got in the mud, I grabbed the WGA phones cranked in the SCAF and he

really popped! The only thing that I don't like about them is the fact that the boom does not pivot up and out of the way, hmmmmmmmm.....Project time! Might be an easy way to make the mike boom detachable, or might just take it off, what the hell is SSB and phone anyway? I don't even know if the SSB mode on my Kenwood works anymore, the last phone QSO i made on HF was about a year ago, and I have only logged 8 in the last 3 years out of 300-500 CW Q's! Now if I could figure out with that Q count why I still can't copy over 35 wpm in my head all the time...;-0

Best  
Jess N0TFi

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: kb0rol@juno.com (Bradley L Mugleston)  
Subject: [7690] BOOKS  
Message-ID: <19970101.182713.7591.6.kb0rol@juno.com>

Everyone has been looking for REFLECTIONS and other books. I don't know if they have it (lost my WEB access) but there is a book store on the WEB at [hppt://www.amazon.com](http://www.amazon.com) and they seem to have everything I've ever looked for. You can order online and they ship right away - last order was for a just released book - not a best seller or top 50 book or anything like that - and not only did they have it but it was \$14 with a \$21 list price. Delivery was in 4 days.

Brad Mugleston - KB0ROL  
Colorado QRP Club # 170, QRP-L #316, ARRL  
QTH - Aurora, CO - DM79oq  
KB0ROL@JUNO.COM  
BMUG@GWL.COM

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Ed Tanton <n4xy@avana.net>  
Subject: [7762] CB-MIS-ID-Phobia  
Message-ID: <3.0.32.19970102134813.0099a510@tiger.avana.net>

Hi All... I think the primary reason many hams have such an aversion to CB'ers is that we are often misidentified as (being) CB'ers by the general public. "Is that a CB radio" is a question I have answered in the negative many times. I further suggest that the aversion itself results from the desire not to be identified with some of the less attractive facets of CB radio operators: their vernacular callsigns, their artificial countrified language and terms, and their overall abuse of the laws regarding the citizens radio service-or whatever.

This is not meant to condemn CB operators in general-many, many of them turned to amateur radio to get away from the abuses/etc. They are indeed a major factor among our new membership over the past 10 years, and we should all avoid type-casting anyone because of some generalized label.

We have very little room to talk, considering what you can hear on 75M SSB and 20M SSB especially-and more and more often around pile-ups in general.

I will get mad like anyone else about such intrusions, QRM, and the like... but I TRY to QSY. There is a lot of importance attached to how you conduct yourself on the air, and that's enough to worry about. Sorry about the IMHO-soapbox.

Best Wishes to All at QRP-L for a great 1997!!!  
72/73

Ed Tanton N4XY      EMAIL: n4xy@avana.net      TEL: (770)579-3933 V/MBX/FAX  
189 Pioneer Trail  
Marietta, GA 30068-3466

QRP-ARCI#7663      G-QRP#6779      OK-QRP#172      QRP-L#758      AdvRC#140  
NORCAL#1779      NCDXF      SEDXC

Life Member: ARRL      AMSAT      IDRA      INDEXA      QCWA  
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Charles Cashion <ccashion@spdmail.spd.dsccc.com>  
Subject: [7772] D below middle C?  
Message-ID: <199701021937.NAA25586@spd.dsccc.com>

Ron writes ( ms> )

ms>  
ms> Has anyone used a little preamp from a mic to  
ms> a freq counter to tune a Banjo?  
ms>  
ms> If that idea will work, what is the frequency of  
ms> D below middle C?  
ms>  
ms> Thanks for any help, and for the BW. cul,  
ms>  
ms> 73, Ron,

ms>

I am looking at 73 for Jan 1996, page 70.  
It indicates A above middle C is 440.  
It indicates D below middle C is 146.8

Good luck.  
I wanted to try this myself one time,  
So keep us informed how it goes.

72s,  
Charles Cashion, W5ISZ  
Plano (Dallas is our nearest suburb) Texas  
ARRL NorTex#116 NorCal#1320 QRP-L#76

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Tom Bowman <tbowman@nbn.net>  
Subject: [7787] Data Book  
Message-ID: <2.2.32.19970102205209.006dd2a4@nbn.net>

Thanks Paul for personally helping me get my Data Book for Homebrewers and QRPers.  
The book was stalled somewhere between me and the publisher, but thanks to your intervention,  
I received it today.

Great book, filled with all kinds of practical information, and I recommend it to others on the list.

BTW Paul, love those "left-over resistor leads" on the back cover....

73,  
Tom, WA3REY  
-----

Tom Bowman, WA3REY <>< Mount Gretna, PA 17064 tbowman@nbn.net

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: ukii@megsinet.net (ukii)  
Subject: [7702] does TiCK Remember?  
Message-ID: <01BBF82B.ABAC5260@randolph2er1-14.megsinet.net>

Howdy Doody Gang...



Just kind of wondering if someone has come up with a memory module for the TiCK keyer? I followed the TiCK thread kind of close, but my finger may have hit the delete too fast and I missed it? I am helping a NEW HAM, KC7TTV, Gordon, who just passed his nocode, (he has been on the list a while, watching/learning!) and both of us seem to be looking for a keyer. I thought of the TiCK, but I had just told him to get a memory keyer, so HELP ME OUT! One of you guru's probably has an idea already, share it will ya? Oh..One more thing...Can he produce any sound with the TiCK and paddles only? Is there a provision to hook up a speaker.. He needs a practice oscillator and I thought he may as well kill 2 birds and get something he will be able to use later, like the TiCK. Thanks very much...  
73 de john  
n9ukx

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "John Shuster" <jshuster@ix.netcom.com>  
Subject: [7748] EMTECH audio filter for MFJ 90XX  
Message-ID: <199701021541.HAA16882@dfw-ix7.ix.netcom.com>

To All:

I have a couple MFJ 90XX rigs. I bought an MFJ narrow filter for about \$20 and put it in the 15 meter rig. In an effort to learn a bit more about electronics, I decided to get one of EMTECH's audio filters, build it and install it in my 20 meter MFJ.

It all worked out! The MFJ manual had the pinout for the filter prongs in their manual: with the front of the radio closest to you, it is +12VDC - OUT - IN - GND. I wired in a DPDT switch in the hole where the red push-button goes, aligning it with the "on" and "bypass" markings already there. The filter mounted in the same post that is provided for the MFJ filter.

Bottom line, the EMTECH really outperforms the MFJ. It is more narrow in its filtering. By replacing R1 and R5 with the optional and provided 300K resistors, you get more gain, a touch of ringing, but the ability to "pull a barely readable signal out of the mud into Q5 copy" as Roy Gregson states in the active filter instructions. You can also use the optional and provided resistors to center the filter at the lower 720hz tone if your ear prefers a lower note.

This makes a nice one-evening project that really enhanced my MFJ 9020 rig. I have found that Roy's custom filter

with its specially chosen, tight-tolerance components, is much better than the stock MFJ plug-in.

Best,

John

++++++  
Father John Shuster, Married Roman Catholic Priest   jshuster@ix.netcom.com  
Need A Priest? Rent-A-Priest! 1-800-PRIEST-9   A Free Referral Service  
At the foot of the Olympics in little Port Orchard, WA  
K7MP       ARCI 8951   QRP-L 554   ARS 36   NW QRP 346   WWDXC   ARRL  
++++++

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Richard Wilkerson <richqrp@pacbell.net>  
Subject: [7705] fifty states fifty one days  
Message-ID: <32CB35AE.3AF7@pacbell.net>

Just thinking.... Hmmmmm .. Friday should be OK I have worked Joe KC7NEV ever since we started working contests. Sunday should be another good one.. Bob N6WG ... OH this one will be a snap!!! already have his card using qrp.. so maybe it wont be so bad??? 72's rich

--  
Rich Wilkerson WD6FDD, Santee, Ca.  
NorCal, ARCI, Qrp-L, ECRA  
scQRPions

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Richard Wilkerson <richqrp@pacbell.net>  
Subject: [7704] first day fsfd  
Message-ID: <32CB3311.705D@pacbell.net>

I lost..... I did hear N4S0 a few times on 20mtrs. but I did not have enough juice to get there from here! I did hear tons and I do mean tons of QRN here on 40mtrs. I will start Fifty States in Fifty One Days???? 72's to all ... no head ache here ... don't drink ... hope everyone had a very good new years eve last night.

--  
Rich Wilkerson WD6FDD, Santee, Ca.

NorCal, ARCI, Qrp-L, ECRA  
scQRPions

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Bob Tellefsen-CNSE97" <Bob\_Tellefsen-CNSE97@email.mot.com>  
Subject: [7725] FOX Report: Ol' Kenwood's Ordeal  
Message-ID: <M1214459.002.dcra1.1.970102065934Z.CC-MAIL\*/OU=LMPCC10/OU=ILBE/  
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Boy, was that an ordeal. I'm not sure ol' Kenwood will speak to me for a few days. Our ears are still ringing from the sheer noise on the band. He's crawled into his kennel, with his paws over his speakers. Our hats are off to those FOXES who have gone before, and to the intrepid and persistent hunters. I don't think ol' Kenwood ever gave out a report higher than 569, with a lot of 229 and 339.

Spent a good chunk of time switching between antennas trying to pull signals up just that lil bit that would let us read a call. Oddly, my 30m half square was my quietest receiving antenna tonight.

Still not sure of some entries, so would appreciate corrections before Chuck collects his data. Will repost with corrections in a day or so.

QSB was crazy. Signals were in briefly and then gone. We could recognize a call and then it would never be heard again.

Anyway, here's what ol' Kenwood and I think we worked.

Time	Call	RST	State	Name	Number
0401	AB7TK	579	ID	Randy	102
0403	WA6NAE	559	CA	Dwight	5W
0405	W6EMD	559	CA	Dave	294
0407	W5TFB	339	TX	Jake	282
0409	N7GS	559	MT	Mal	815
0411	W6ZH	439	CA	Pete	257
0413	N6MM	559	CA	Harvey	318
0414	AK1P	559	CA	Paul	284
0415	K6VNX	559	CA	Arlen	5W
0416	NQ7X	559	AZ	Floyd	343
0422	W6SU	339	CA	John	48
0423	KI7NS	449	WA	Phil	528
0426	W00Q	439	CO	Marty	793
0431	N5ET	559	TX	Bob	123
0432	N6KR	559	CA	Wayne	4R0 4?
0435	KE5TF	559	TX	Linda	5W
0437	AB5OU	559	NM	Tim	73

0442	K50N	449 NM	Gary	770
0443	W6ZOH	559 ID	Floyd	90W
0447	KK5RO	229 OK	Vernon	3 4 32 ??
0453	WB6BAB	559 CA	Harvey	5W
0457	KI6OY	559 CA	?	837
0500	K5ZTY	339 TX	Bill	473
0502	KC7NEV	559 AZ	Joe	191
0505	KK7BD	339 AZ	Dan	5W
0511	K5LE	479 CA	Jim	534
0516	WD8LDY	559 TX	Dave	5W
0532	WB4ZKA	229 AZ	Mike	237
0535	AB5UA	339 OK	Clif	478
0551	K05W	599 TX	Steve	5W
0555	W5FN	? ?	?	?
	Heard the call clear, then gone			
0557	N6VZ	559 CA	Gary	4W

Summary:

AZ 4, CA 12, CO 1, ID 2, MT 1, NM 2, OK 2, TX 6, WA 1 = 31 QSOs

As would be expected, CA walked off with the cake. Given the really wretched conditions, TX put up an excellent show, as well as the OK gang.

Please email your corrections to me direct, as I'm on the digest. Otherwise it will be a while before my corrected report gets posted.

Anyway, it was great fun. Ol' Kenwood's next gig is Sunday evening, January 5 (0100-0300 UTC Jan 6) for the FSFD. We'll be on 40m in the FOX frequency area.

72 to all, Bob N6WG and ol' Kenwood

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997

From: Bruce Rattray <RATTRAY@siast.sk.ca>

Subject: [7750] Foxes?

Message-ID: <8458021002011997/A32709/RIEL/11B112772300\*@MHS>

Well I spent another evening cruising up and down 40 mtrs looking for those crafty foxes to no avail....couldn't find N6WG, KS4L or N4SO...was this another wasted evening you ask?...certainly not I say because I now have my receiver tuning skills finely tuned....I can boast that I am able to tune my Kenwood with 1 finger automatically between 7.035 & 70.45, with my eyes closed and my headset on..."practise makes perfect"...HI HI...oooops, I forgot to add KL7FS/KH6 to that list...bring on the foxes!...73 Bruce (VE5RC) QRP-L#886  
 "Live & learn; die and forget it all! HAR!"

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: John Dorson <jdorson@bbs.mpcs.com>  
Subject: [7688] fs vac. cap  
Message-ID: <199701020046.TAA10713@bbs.mpcs.com>

hi gang. i have for sale a vacuum capacitor that was used on  
a loop ant. that covered 40-10 meters (so i was told) and i  
believe this person. when i got it the loop was fully  
assembled but since i have a great portable loop ant. i took  
this one apart.

so i will sell this capacitor for 15.00 dollars plus shipping  
(in the lower 48), however let me say it's not light...

it was manufactured by itt jennings in the usa...

Thank You

John Dorson Real Estate Consultant in Melbourne Beach, Brevard County Florida  
E-Mail To: jdorson@bbs.mpcs.com

```
| Trying for WAS -      AL,AK,AZ,AR,CA,CO,CT,FL,GA,IL,IA,KS,KY,LA,ME,MD,MA|
| and worked these:    MI,MN,MT,NH,NJ,NY,NC,ND,OH,OK,OR,PA,RI,TX,VT,VA,WA|
|                      WI                                           |
|_____
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K2JHU only QRP... CQC #351, GQRP # 9092, QRP-L #672

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Bob Hightower <ki7mn@dancris.com>  
Subject: [7785] FSFD  
Message-ID: <199701022132.0AA22727@dancris.com>

Yahoo! Missed Alabama completely, but turned the rig on today at about  
2120Z, and there was W0LK, right at about 14.059. Bob had a good sig into  
AZ, a 579 when I caught him. Then the #)(%\$\*#& qsb came up and took him  
away, but not before we'd exchanged reports.

73,

Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP  
ARCI #8918, AK QRP #30, not in any order of importance.

<http://www.dancris.com/~ki7mn>

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: bobsey@juno.com (Robert G. Seymour)  
Subject: [7790] FSFD  
Message-ID: <19970102.215832.9278.0.BOBSEY@juno.com>

Well gang, here are the results of my two hours on 20 meters this afternoon. Band pretty noisy and had trouble copying some of you and I hope I didn't miss anyone who was trying to call.

VE5RC	579	Bruce	SK
NQQ7X	579	Floyd	AZ
N4BP	589	Bob	FL
WZ2T	579	Rick	NY
W2DP	579	Bill	NJ
K3QIO	599	JIM	? can't read my writing!!
N0FIO	569	Glenn	Co
N1NM	589	Al	Ct
KM5CS	589	Watt	TX
KF2TP	579	Rick	NY
WA1QVM	449	Joel	MA
KI7MN	449	???	AZ
NG1A	579	Fred	MA
AA1MY	339	Seab	CT

It was a real struggle toward the end of this shift.  
Will be on 7042(plus or minus u know what) from 7-9 PM CST tonight.

72, Bob, W0LK, Mountain View, AR.

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Martin Squicciarini <skitch@resuba.com>  
Subject: [7740] FSFD & 38S Case  
Message-ID: <Pine.LNX.3.91.970102084733.15706A-100000@resuba.com>

Hi Gang,

Happy New Year to all.

Wow, I'm off to a great start with TSTD (Two States in Two Days). I found Bob on 3.560 at 5:50 AM (I leave for work early) and I worked Randy yesterday on 20.

I can't wait for my 38S to arrive and since this is my first NorCal Kit what is the best case to put it in? Someone mentioned a TenTec but I don't have a catalog and I don't remember the part number. TIA

72/73

Marty Squicciarini NR3Z  
skitch@resuba.com (home)  
msquicci@vf.lmms.lmco.com (work)

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Jim Hydzik <congress@magpage.com>  
Subject: [7732] FSFD (50 States) Daily Update Jan 02  
Message-ID: <199701021130.GAA09380@alaska.magpage.com>

Hello ALL, (activity goals at <http://www.dancris.com/~ki7mn>)

The 50 States In 50 Days (FSFD) activity started Jan 01 and runs through Feb. 20. Below is a the schedule of States for the next few days. We will attempt to provide digested schedules of states/times/bands/freqs. to help reduce message traffic to the reflector. Typically, 1 message per day only.

Thanks to Randy and Ken for starting us off with Alabama on one of the worst of band condition days. Good job by both.

Jan. 02, Thursday	ARKANSAS	W0LK, Bob:	2 PM->4 PM CST	14.058
			7 PM->11 PM CST	7.042
	(Yes, AM)	N9ZZ, Bob:	4:30 AM->6 AM CST	3.560
			7 PM->8 PM CST	3.560

Jan. 03, Friday	ARIZONA	KC7NEV, Joe:	2->3:30 PM MST	14.062
			4->5:30 PM MST	10.118
	NOVICE		7->8:30 PM MST	7.118
	BAND		9:30->on til??	7.118
		W7KXB, Bill		7.039?
		KK7BD, Dan:	9->10:30 AM MST	10.118
			11 AM->12:30 "	14.060
			1->2 PM "	21.060
			2:30->3:30 PM "	10.118
			4->5:30 PM MST	14.060
			6:30->7:30 PM "	7.038
			7:30-9 PM MST	3.560

Jan. 04, Saturday	COLORADO	AL7GQ, Geno:	5->6 AM MST	7.042
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NOVICE	8:30->9 PM	MST	3.722
NOVICE	9:30->10 PM	MST	7.111
NOVICE	10:30->11 "	"	3.722
	11:15->11:45 "	"	1.812
AA0XI, Marshall:	7->9 PM	MST	7.037
KB0VCC, Dale			7.042?

Jan. 05, Sunday CALIFORNIA W6JHB, Jim: 10 AM->6 PM PST 10.110->10.118  
 N6WG, Bob: 5->7 PM PST 7.035->7.045  
 (START in AM) AC6KW, Jeff: 8->8:30 AM PST 7.042  
 2->3 PM PST 14.059  
 3->3:30 PM PST 21.059  
 7->9 PM PST 7.042  
 K6LS, Phil: 4->8 PM PST 7.040 +/-10Kc  
 but not dead on .040

Jan. 06 Monday SPARTAN SPRINT, no special FSFD state (work everybody)

Jan. 07 Tuesday CONNECTICUT AA1MY, Seab: 9 PM->11 PM EST 7.042  
 11 PM->Midnight 1.810  
 (Actually Wed AM EST) Midnight->1 AM EST 10.115

Jan. 08 Wednesday DELAWARE K3AS, Bill: 10->10:20 AM EST 7.042  
 Noon->12:30 PM " 14.059  
 1->1:30 PM " 21.059  
 2-2:20 PM " 7.042  
 9->11 PM " 3.556  
 (3 ele. yagi on Europe) KA3LLL, Jim: 7:30->9 PM EST 3.556  
 K3QIO, Jim: 9->9:20 AM EST 7.042  
 10->10:20 AM EST 14.059  
 Noon-12:20 PM EST 10.115  
 1->1:20 PM EST 18.079  
 (Novice Band) 2->2:20 PM EST 21.111  
 9->11 PM EST 7.042

Jan. 09 Thursday FLORIDA KK4KF, Bill: 6:30->7:30 AM EST 3.710  
 6->7:30 PM EST 7.108  
 (Note NOVICE Freqs) 7:30->9 PM EST 3.710  
 N4BP, Bob: 1-4 PM EST 14.058  
 4->5 PM EST 10.115  
 5->7 PM EST 7.038

-----  
 Most every sign-up came with a note saying they would go longer if busy.

CALLING CQ: A suggestion. If we call CQ WAS or WAS QRP de K6.... etc,  
 we give those not on QRP-L an indication of what we're doing. FSFD type  
 calling might be too cryptic for all but ourselves.



ALASKA & HAWAII: Jim-AL7FS/KH6 did arrive in Hawaii, is posting directly to the reflector and will be on through the first few days of the year. Watch the reflector and grab him when you can. Jim will activate ALASKA on a weekend after his return.

If you are on this list and haven't gotten an e-mail request from me regarding YOUR operating desires, just fill in the info here and reply.

Juno has been a mess for the last 3-4 days. I have suggested the 40M frequencies when not specified by the volunteer.

Anyone else want to sign-up, e-mail band/freq/time directly to:  
congress@magpage.com

Thanks for all the responses/encouragement and suggestions. Lets have a blast!

Jim K3QIO Wilmington, Delaware

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Byron8LCZ@aol.com  
Subject: [7758] FSFD comments  
Message-ID: <970102131153\_1889569498@emout17.mail.aol.com>

Hi Gang,

Conditions have been terrible lately. WWV has been announcing a Strat Warn Alert for the last five days in a row. the solar flux has been dropping. the QRN on 80 is loud. But i'm still making QRP contacts, and new ones at that.

I connected with Randy KS4L last night on 80m. two way QRP. If any of us are going to get 2-way QRP WAS, its going to be with a program like FSFD or in a contest. Most 80m hams wont bother to dig us QRP'ers out of the noise. Many seem to be running with their RF gain controls turned down. Congrats to Jim K3QIO for thinking this thing up. I hope more guys jump on board the FSFD QRP Train. chuga chuga, whoo whoo

Then I moved up in freq 2 khz and worked Ron VE3SP 5w Ontario, then Pat W00PW 100w in Minn, then Bill W8BD in Ohio, Residual fall out from the FSFD. Cant wait for Arkansas.

72, Byron WA8LCZ Detroit

80m - worked 28 QRP and 14 two-way QRP and heard 13 more states I havent worked yet

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: KB0VCC <dalea@artemis.fc.hp.com>  
Subject: [7774] FSFD: (COLORADO), My Schedule for Saturday...  
Message-ID: <9701021952.AA13930@artemis.fc.hp.com>

Hi Jim and All,

Below is my schedule as a (Colorado) FSFD volunteer for this Saturday, Jan. 4th. I've tried to work around Geno and Marshall's schedules with different bands/segs/times.

Three of the 7 hours I'm on, I'll be in the N/T segments. I will QSY per this schedule unless I'm detained by a pile-up (hi hi). In which case, I'll remain on frequency until I work everyone. Note: All freqs +/- 1KHz for QRM.

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KB0VCC, Dale: 2:00-> 4:00 PM MST 14.058  
7:00-> 9:00 PM MST 7.112 (N/T)  
9:05->10:00 PM MST 7.042  
10:00->11:00 PM MST 3.561  
11:05->Midnite PM MST 3.702 (N/T)  
-----

Looking forward to working all of you!

72 es 73,  
de Dale, KB0VCC  
Fort Collins, CO  
QRP-L #91 / CQC #251

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Randy Moore" <wr.moore@worldnet.att.net>  
Subject: [7708] FSFD: Alabama  
Message-ID: <19970102042337.AAA23112@THEMOORE.pcmail.ingr.com>

I was expecting a Fox-like pileup, but not even close. 34 contacts in 4.5 hours was a bit disappointing. Don't know if it was propagation, family and football on New Years, or just not many people needing an Alabama QSO.

Twenty had been busy earlier in the day, but by the time I got started at 1800Z, it was flat. Forty was worse at 0000Z. I tuned around the band around 0100 and found less than 6 QSOs in the whole CW portion! Eighty had plenty of signals, but the worst QRN I've heard in a while. There were several stations that I heard calling but could never copy enough of a call to even start a contact.

Thanks to those who gave it a try!

Hope things get better for the rest of FSFD.

Here's the log, with Time (UTC), call, sent RST, received RST, state, and name. Let me know if there are corrections.

20m

1803	W1VT	579	579	CT	Zack
1807	N2TO	559	559	NY	Kevin
1811	WK8G/M	599	589	NJ	Jim
1813	NR3Z	569	559	PA	Marty
1820	VE20PB/VE2	579	549	QUE	Pierre
1824	W2DP	449	569	NJ	Bill
1833	K2LUQ	569	589	NY	Rich
1842	W1ME	449	559	ME	George
1845	WA1QVM	579	569	MA	Joel
1850	NR5A	459	569	SD	Jerry

40m

0009	NQ7X	459	339	AZ	Floyd
0019	K5ON	449	449	NM	Gary
0109	KA0SIX	579	559	KS	Leo
0127	WB9LKC	339	569	WI	Ray
0149	VE3JC	339	339	Ont	John
0152	W8LRM	459	599	MI	Al
0154	N9DD	599	559	IN	Tom
0157	N5LU	449	449	OK	Bill
0159	WK8S	579	569	MI	Pete

80m

0212	N4IT	459	599	MO	Dave
0214	K5W0	589	579	TX	Bob
0218	N0UR	579	579	MN	Jim
0221	AE4EW	569	539	VA	Terry
0225	N3FRT	339	239	W.DC	Bob
0230	NU4N	599	599	KY	Dave

0233 VE3JC 469 579 ONT John  
0235 K2JT 239 449 NJ Joe  
0239 W5TFB 459 599 TX Jack  
0241 WA8LCZ 339 439 MI Byron  
0246 W7FU/7 339 339 AZ Gordy  
0251 N7RI 349 459 WA Ralph  
0253 KG0NA 589 459 MO Jim  
0257 W4DU 359 449 GA Ken  
0259 W7KXB 339 449 AZ Bill

72/73 and Happy New Year!  
Randy, KS4L  
Huntsville, AL

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: georges@echoman.com (George Spear)  
Subject: [7789] FSFD?  
Message-ID: <19970102220407476.AAA264@Georges.echoman.com>

I am new to the list and was wondering what FSFD stands for and how one participates.

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Peter Linsley <101356.3146@compuserve.com>  
Subject: [7729] G-QRP Subscriptions  
Message-ID: <199701020408\_MC1-DFD-D3A5@compuserve.com>

Hi Folks,

Happy New Year to one and all !!!

Just a reminder that the subs for 1997 are due this month

You can send dollar cheques to either Mike Kilgore KG5F (\$12.00) or John Leak G0BX0 (\$14.00), or using MasterCard / VISA to John Leak G0BX0 (\$12.00).

Note that Mike has a new address at:  
10000 Walnut Street #2062  
Dallas  
TX 75243 U.S.A.

If you are not uneasy about sending your card number by e-mail then I can process it for you but please include the following:

Membership number (callsign if you can't remember!)  
Name and address of cardholder  
Card number  
Expiry date

I may be able to tell you what your subscription status is but can't guarantee accuracy as there are always some renewals in the pipeline from Mike. I have data which is updated regularly.

I'm also pleased to pass on to John (our membership secretary) any inquiries or membership applications if anybody else is tempted . . . . .

Thanks for your continued support ladies and gentlemen,

72 / 73 / 88,

Peter, G3PDL  
Hon. Treasurer, G-QRP Club.

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Frank, G3YCC" <g3ycc@enterprise.net>  
Subject: [7759] G3YCC Web Site, latest!  
Message-ID: <199701021815.SAA02566@mail.enterprise.net>

Now I know why I and the rest of the QRP world cannot access my normal site - THE SITE HAS BEEN DELETED!  
The reason for this was there was a file giving details of the QSL cards which I have printed and distribute to members of the G QRP Club. The cards are sold at cost price and no profit is made by myself or the G QRP Club. However, the powers-that-be decided that I had commercial content and gave me 24 hours to remove the relevant details. This I did, although I sent an email to enterprise.net explaining the situation and asking for a reply - none was received. They then deleted my site, so that is why you have had problems and why I shifted the SM0VPO files to my free site at Geocities. Now the original site is being restored, BUT, I have deleted all reference to dealers, sources of kits, components etc, which may be construed as 'commercial'.  
Sorry for the mix-up, which is not of my making and BOTH sites should be accessible within 48 hours - I hope! All files, with the exception of any reference to anything remotely 'commercial' will be restored. Sorry for the bandwidth.

QRP sites:

Available now: <http://www.geocities.com/CapeCanaveral/5179> - SM0VP0's files only at the moment.

Available within a couple of days: <http://homepages.enterprise.net/g3ycc/>

Life is never simple or dull!  
Frank, G3YCC

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: kb0rol@juno.com (Bradley L Mugleston)  
Subject: [7691] Headphones  
Message-ID: <19970101.182712.7591.2.kb0rol@juno.com>

I'll mention it again, Radio Shack has their Nova-44 headphones on sale 1/2 price which makes them about \$13. They are a small Full ear headset that are light weight. Their design doesn't grab the hair and they give me plenty of volume on my Explorer II which isn't suppose to have a lot of sound output.

Standard disclaimer - don't work for RS but have two sets of these phones.

BTW - when you buy the 1/4 inch mono to 1/8 inch stereo adaptor half of the ones I've purchased (1 of 2) didn't work.

Brad Mugleston - KB0ROL  
Colorado QRP Club # 170, QRP-L #316, ARRL  
QTH - Aurora, CO - DM79oq  
KB0ROL@JUNO.COM  
BMUG@GWL.COM

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: georges@echoman.com (George Spear)  
Subject: [7744] Help with mobile antenna selection  
Message-ID: <19970102144855909.AAA330@Georges.echoman.com>

I travel a lot and am considering using a mobile antenna on the car for QRP CW and SSB any recommendations on a multiband antenna. I was

musng over the "screwdriver" type or the outbacker type with taps.  
I noticed as well that palomar engineers has introduced an antenna to competewith the outbacker. They have produced some great items in the past and I was intrigued to see a tapped mobile ant from them. So what should I choose screwdriver or taps?

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "William R. Colbert" <v31xe@dzdn.com>  
Subject: [7776] Hogmanay update  
Message-ID: <32CC3279.18E4@dzdn.com>

Just thought I would update the Hogmanay thread of a few days ago, since there are a few interested former participants on the list. According to the Scotsman (on-line) and the Daily Record-Sunday Mail (on-line) Princess Street hosted over 350,000 party-goers in slushy below freezing weather. A great time was had by all, including a juiced, anonymous piper sitting atop a traffic light. Expectations had been that over 400,000 would be in attendance. (Wonder if Mel was out in the crowd or out restoring power to those still without?)

QRP: Re the W8KC fox - I thought I heard Paul once - I did hear Jack, K8BVJ (wide range of QSB)with a good signal just before 0400. Just not meant to be this time. Next time for sure. Ray

--  
72/73, Ray Colbert, W5XE, SOWP 1064M  
(also af852@rgfn.epcc.edu)  
El Paso, Texas

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: BWHITTEM@mailgw.sanders.lockheed.com  
Subject: [7745] hv electrolitic source?  
Message-ID: <2CBCD350.1299@mailgw.sanders.lockheed.com>

does anyone know where to get replacement electrolitics for old tube equip? ive got an old hallicrafters s38 with a lot of sentimental value that id like to refurb. id like to keep as origional as posible.  
thanks and happy new year  
barry whittemore  
wb1edi

<http://www.netis.com/members/wb1edi/>

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Richard Wilkerson <richqrp@pacbell.net>  
Subject: [7715] info  
Message-ID: <32CB4677.5FF9@pacbell.net>

Does anyone know if Steve Pituch, N2MNN is still on this net??

--

Rich Wilkerson WD6FDD, Santee, Ca.  
NorCal, ARCI, Qrp-L, ECRA  
scQRPions

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Steve Hideg <Steve.Hideg.1@nd.edu>  
Subject: [7738] Internet QRP Club WWW Site Additions  
Message-ID: <v03007801aef164a307d6@[129.74.35.16]>

Greetings.

I've added some things to the Internet QRP Club website  
<<http://qrp.cc.nd.edu/QRP-L/>>,

including:

Pictures of Peter Simpson's (KA1AXY), 49er  
at <<http://qrp.cc.nd.edu/qrp-l/miscpics/ka1axy/index.html>>

QRP Plus Anti-Thump modification article by Larry V. East, W1HUE  
at <<http://qrp.cc.nd.edu/qrp-l/hints/w1hue/thump.html>>

A picture of Preston Douglas's (WJ2V) Labs White Mountain 75m SSB rig  
at <<http://qrp.cc.nd.edu/qrp-l/miscpics/wj2v/wm.html>>

An exhaustive article on the J-Pole antenna by Gary E. O'Neil, N3GO  
at <<http://qrp.cc.nd.edu/qrp-l/hints/jpole/JPOLE.HTML>>

RFTools software for your PC, provided by WA8MCQ  
at <<http://qrp.cc.nd.edu/qrp-l/files/rftools/index.html>>

More to come.

72,



Steve

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Steve Hideg, N8HSC/9 QRP-L #136  
Check out the Internet QRP Club's site on the WorldWide Web:  
<<http://qrp.cc.nd.edu/QRP-L/>>

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Frank, G3YCC" <g3ycc@enterprise.net>  
Subject: [7761] Kissing your way to DX!  
Message-ID: <199701021841.SAA05604@mail.enterprise.net>

Was interested in the Sprat article recently which suggests using a lipstick holder as a means of tuning an ATU. Glue a piece of ferrite into the part that moves, wind your coil on the end of the tube, use the twisting bit as a knob and hey presto - tuneable coil! Also VFO tuning??? It may pay to

1 make sure 'her indoors' does not need the item for it's intended use.

2 not use the 'orrid red (black?) stuff yourself, duckie!

Sorry, I am unable to supply lipsticks, but it makes a change from reading about mint tins doesn't it?

-----72/3-----

Frank, G3YCC G QRP Club 042 QTHR (Kirk Ella, Nr Hull)

QRP WEB SITES:

<http://www.geocities.com/CapeCanaveral/5179>

<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Bob Tellefsen-CNSE97" <Bob\_Tellefsen-CNSE97@email.mot.com>  
Subject: [7763] LDG QRP Tuner Kit (Long)  
Message-ID: <M1215214.012.e9y5c.1.970102185636Z.CC-MAIL\*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Well, I finally received my kit from the group buy, just before Christmas. It is built now, and in service.

I gave it the full treatment with all the extra buttons for capacitor or inductor increase or decrease, and all the LEDs for status, SWR indication, and

so on. Also included an LED for POWER ON indication.

#### Construction comments:

I had some problems in three spots.

1. Winding the toroids. The holes are not side by side for each coil, but offset a bit for the beginning and end of each winding. It took me a few tries in winding the toroids to get the ends to come out near the holes. You have to start winding in the right direction.

2. The SWR sensor toroid just asks for a bifilar winding. I wound mine with the two wires parallel, as I think of bifilar, and could not get the trim capacitor to null. So, finally pulled the wire off the toroid and twisted it together for its length. Rewound the toroid this way, and the null works.

3. The Auto versus Semi Auto setting of the control switches. I had the original article to refer to for help, and after several rereadings, finally found a passing comment that the Auto wire has to be grounded for Auto operation.

I needed this info, as I put in a three position rotary switch for POWER OFF, AUTO, and SEMI positions. Needed to know when the lead should be grounded. Without the original article, I would have to resort to cut and try.

4. Small. This completed board would fit inside the top cover of my QRP+ if the speaker is removed. Interesting idea for a portable setup. I believe someone else has already put his in a Sierra(?). It's more trouble to find a place for the controls than for the board.

5. Manual. Those of use who have been spoiled by the old Heathkit manuals, and lately the manuals for the many excellent QRP kits will be disappointed in this manual. I consider myself to be a reasonably competent kit builder, but this one took longer than I feel it should have, due to having to scratch for information that could easily have been given in a sentence or two.

#### Operating comments:

1. Fast! When I first change bands and key the rig, the buzz of the relays seeking a match is startling. I've unkeyed more than once by reflex.

2. The match is often in the 1.5-2.0 swr range. I have to use the push buttons to step it down to a closer match. The sensor toroid has only the center conductor of a piece of coax passing through it to the PC board. I'm going to try a short piece of stiff wire formed in a half turn over the toroid to slightly increase the coupling and see if that helps. At least it may increase the sensitivity so my 40-9er can trigger it (when I get the 40-9er working, that is.).

Most of my feedlines can be brought down to essentially no reflected power at the tuner output. So far I have not been able to match my 30m half square on

40m however! Guess the impedance is just too wild, with the antenna and feed line combination.

3. Bypass mode. During construction, I put in a bypass switch to jumper around the tuner when it was off. However, when turned off, the relays all short out their respective inductors for a straight through path. At 5 watts, the insertion loss is almost undetectable on 40m, so the bypass switch may not be needed. On 10m into a flat 50-ohm dummy load, the reflected power just moves my needle. I'm leaving the bypass switch in, though, in case I want to crank Ol' Kenwood up to some QRO level without damaging the relay contacts. They are such little fellows.

Now that I have it working, I'm seriously considering a modem case as a better housing for this little tuner. I used a box I had on hand that is really larger than needed. Probably was a good idea to use it for the first pass, though.

Now I have it working, I like it. Will continue tinkering, though. If anyone hears of a mod to bring the swr limit lower than 1.5:1 in auto mode, I'd appreciate hearing about it.

72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: 02-Jan-1997 1456 <randolph@asic.ENET.dec.com>  
Subject: [7779] N100Q RX #5: mixer tradeoffs, IMD, intercepts  
Message-ID: <9701022001.AA00347@us4rmc.pko.dec.com>

No. 5

We'll now look at the tradeoffs of mixers. There is a lot to cover, so this will come in two postings. The concepts learned here will also be useful when we get to the IF amps.

There are many kinds of circuits that we can use as mixers. A simple diode goes a long way as far as just mixing two signals and getting an output. The problem with simple mixers is that a lot of stuff that we don't want also comes out the other end. In particular, the two input signals and all their harmonics make a real mess of the output. Circuits can be designed using balance to cancel out certain of the inputs. A single-balanced mixer cancels one of the inputs but lets the other pass through to the output. This is useful in some situations where one incoming signal is very small compared to the other.

The best types of mixers are double-balanced. These use a circuit that cancels both input signals and their harmonics at the output, leaving you

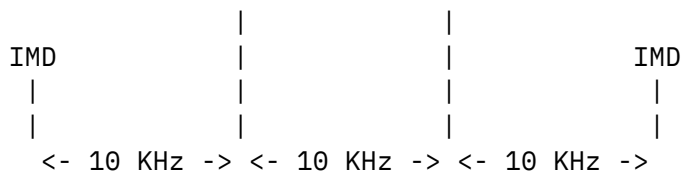
with a fairly clean output. The residual junk can be easily filtered to insignificant levels. Double-balanced mixers also offer isolation between input ports. This is important to avoid the signal from one input getting into the other input and modulating the source, resulting in even more junk.

All mixer circuits are limited in the amount of power they can handle without distorting. All of them add some noise to the signal. The major tradeoff between the various types of double-balanced mixers is between distortion and noise. Generally, those mixers with conversion gain contribute less noise and more distortion, and those with conversion loss give more noise and less distortion. Gain means that the signal gets amplified as well as mixed; the output is bigger than the input. This of course requires active devices. The amplification of the active devices means less drive power is needed from the oscillator. Loss means that the signal gets attenuated as well as mixed; the output is smaller than the input. Diode mixers generally have conversion loss. More power is need from the oscillator to drive this type of mixer, 5 to 20 mW being typical.

The receiver's mixers are all double-balanced diode rings. This type of mixer is similar to a bridge rectifier, has about 7 dB conversion loss, and is pretty clean under large signal conditions. These mixers are particular about the impedance on the three ports. In order to realize their peak performance, they must see close to 50 ohms across a wide bandwidth on all three ports. The diplexer handles this at the output port. It passes the IF signal on to the 50 ohm input of the amplifier, while terminating all other frequencies into a 50 ohm resistor. It's essentially just a bandpass filter to the IF output, and a bandstop filter to the 50 ohm resistor, the band in question being the IF +/- a MHz or two. At the oscillator input port, a 3 dB resistive attenuator will provide 50 ohm termination. We can easily afford to throw away 3 dB's of oscillator power to get a nice, clean 50 ohms. At the signal input port, we can't attenuate without killing the sensitivity of our receiver. We'll have to rely on the 50 ohm antenna or the 50 ohm output of the previous IF amp to provide termination through the bandpass filters. We will be using about 20 mW to drive the mixers in this receiver. With the 3 dB attenuators, this means we'll need 40 mW out of the oscillators.

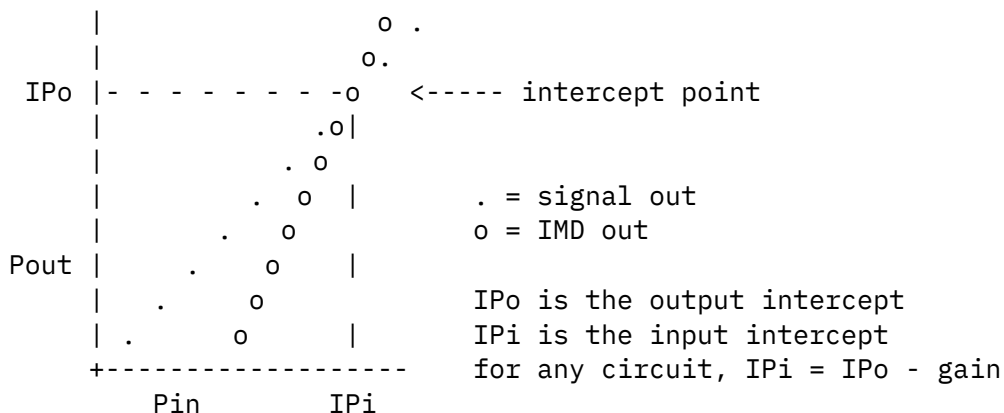
IMD is the biggest distortion worry in mixers. Close together signals generate small IMD products in the mixer that appear nearby, close enough to appear within the band we're listening to and get detected just like a real signal. This is due again to harmonics of the two signals, generated by the mixer itself, mixing and producing output. If the two signals are separated by, say, 10 KHz, the IMD products will appear at 10 KHz above the higher signal, and 10 KHz below the lower signal:

signal	signal



Two close, strong stations will generate IMD products like these. If we happen to be operating at one of the IMD freqs, we'll hear the IMD as QRM every time both strong stations have the key down at the same time.

The IMD output of a mixer can be judged by its 3rd-order intercept point. You may have heard this term before. The concept is easy to understand and is applicable to any active stage in a radio. At normal low power levels, the IMD products in mixer circuits are well below the level of the signal itself. As the signal power is increased, the level of the IMD products rises much faster than the level of the signal itself. At some theoretical point, the circuit is putting out as much junk as signal. This is the intercept point. In practice, most circuits' gain levels off well before it reaches that level, but the concept is useful for comparison and prediction.



Intercept is usually rated in dBm, decibels relative to a milliwatt. Our diode-ring mixers have output intercepts of about +14 dBm. The input intercepts are  $IP_i = +14 - (-7) = +21$  dBm. What does this mean? With an input signal of +21 dBm, which is 126 mW, the theoretical IMD output will be as high as the theoretical signal output. For every dB we reduce the input, this 3rd-order IMD will drop by 3 dB. We can now predict how much junk will come out with a certain level of signal in:

input level	signal dB down from $IP_i$	IMD dB down from $IP_i$	IMD dB down from signal
Pin	$IP_i - Pin$	$(IP_i - Pin) \times 3$	$(IP_i - Pin) \times 3 - (IP_i - Pin)$
0 dBm	21 dB	$21 \times 3 = 63$ dB	$63 - 21 = 42$ dB
-10 dBm	31 dB	$31 \times 3 = 93$ dB	$93 - 31 = 62$ dB
-20 dBm	41 dB	$41 \times 3 = 123$ dB	$123 - 41 = 82$ dB

-30 dBm                      51 dB                       $51 \times 3 = 153$  dB       $153 - 51 = 102$  dB

Obviously, the IMD products drop to an imperceptable level much more quickly than the signal power drops. Plugging higher IPI values into the equations would give us lower IMD levels. This tells us that mixers with a higher intercept rating cause less distortion than those with a lower rating. We should use a mixer with as high an intercept as we can get for lowest IMD. If we're willing to pay the price in oscillator power, diode-ring mixers are among the better in this respect. This receiver was designed to be a home station rig, with performance up to commercial rig standards, so I went all out. Many QRP rigs are designed for minimum current draw from batteries, so low power is a must. Active mixers such as the NE602 are a blessing in such cases, even though IMD is a bit higher. There are experimental active mixers in development with intercepts as high as +50 dBm, with relatively low oscillator power. Future receivers may have 20-30 dB more IMD resistance than anything currently available!

We can use the intercept concept to evaluate the IMD handling of the entire receiver as well as the mixer alone. 3rd-order intercepts are often listed in receiver specs and magazine test reports. A simple analysis is easy to do. If we reasonably assume everything after the mixer is pretty linear, we need only consider the circuitry from the antenna to the mixer to get a fair estimate of the receiver IPI. The only thing in the path is the preselector filter. The LC circuit of the filter contributes no IMD, only insertion loss. Insertion loss is added directly to the IPI; 1 dB of loss means a signal 1 dB stronger is needed to generate the same IMD products. The filter does indeed have about 1 dB of insertion loss, so we can expect the IPI of the receiver to be around +22 dBm. The values in the table above are good estimates of what will happen in the first mixer.

These N100Q RX postings are intended to be a learning exercise for the QRP-L folks, so if you have questions or comments, post them! How's the level of detail? Too much or too little?

=====  
Tom Randolph   N100Q   NE-QRP 419   QRP-L 87   ARRL          randolph@asic.enet.dec.com  
=====

From owner-qrp-l@Lehigh.EDU   Thu Jan   2 18:03:18 1997  
From: Jess Gypin <jessqrp@concentric.net>  
Subject: [7706] NW40 and audio hiss update  
Message-ID: <32CAC38E.5D34@concentric.net>

Hi all,

Since the last post that I made about the NW40, I have listened around

some more and have tried some things. I hooked up the OHR SCAF filter that I had laying around. At first this seems to help but after using the SCAF and playing with the ABX I can tell you that it makes a HUGE difference. The hiss is all but gone and the sigs just POP out of the noise and the hiss is reduced by about 75%. I can live with this. Like I said before, the audio filter in the rig is not working right now as I am still waiting on the resistors from Roy. I was using the Rat Shack monoraul comm head phones and the performance of the rig is right up there after using it for a while. It takes a bit to learn the personality of each rig and it took me a while to get use to this one. With the SCAF filter in line, I can pull out the weak ones just like on the other rigs I have. I am use to the OHR 400 as I use this one the most and compare everything else to it. The performance of the OHR 400 receiver is superb and the NW40 with the SCAF in line is right there along side of it. Please remember that I commented on the hiss in the 400 without the audio filter switched in and it compares in hiss to the NW40 without the SCAF, I just leave it in and forget about listneing to the hiss! For those that think that you have to have an IF filter and that audio filters don't work, think again. I can set the SCAF down to 108 bandpass, adjust the ABX on the NW40 for optimum tone and forget the rest of the QRN and QRM on the band. It's just me and the other guy! I will not pass total judgement on the NW 40 until the audio filter is working, but the SCAF really helped the receiver show it's true colors. I guess that hiss is inherent in high gain audio amps, and the NW40 puts out a BUNCH of audio!

The only things left to resolve are the precision resistors for the audio filter and to try to figure out why the power out pot does not drop the power, but hey! small potatoes. Roy has done a super job on this rig and with the holiday pricing that he has, a bargain (I didn't get in on that, I have had mine waiting to get built for about 2 months |-(...)

For now...

Best

Jess NOTFI

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997

From: w8lrm@qtm.net

Subject: [7694] One down/forty nine to go

Message-ID: <199701020223.VAA06010@garcon.qtm.net>

Hi Gang

Happy New Year. Just worked KS4L in Alabama. The new year is off to a good start. Wish I had that kind o luck on the foxes. Guess

I shouldn't be greedy!! Enjoy the list very much.  
.....de....W8LRM.....Al

MI-QRP #41    QRP-L #532    QRP-ARCI #6524  
G-QRP #4152   NOR-CAL #246   CQC #289 (EN62RE)  
>From Southwest Michigans Sunset Coast:  
Saint Joseph, Berrien County, Michigan !

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: lhalliday@creo.bc.ca  
Subject: [7756] Other services (was: QRO CBers)  
Message-ID: <9700028522.AA852226492@mail2.creo.bc.ca>

Why hams seem to take such delight in badmouthing CBers remains a mystery to me. The General Radio Service (to use its official name in Canada) was originally intended to be low-cost business communications, and has metamorphosed into low-cost wireless personal communication. From what I hear when I tune around, it seems to fill that role just fine. While there are some bad apples, I hear a lot more really bad operating on 20, 75 and 2 meters. Perpetrated by people who supposedly passed exams to be there. :-(

CB seems to do what it was intended to do. Does ham radio?

CB should be a fertile recruiting ground for ham radio, for people who get a taste of radio and decide they want to know more.

Laura Halliday VE7LDH	"C'est une femme mutine, assez
lhalliday@creo.com	elegante, grave et legere, ayant le
ve7ldh@amsat.org	sens du confort et du plaisir
Locator: CN89mg	en tout." - C. Deneuve

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Scott Bauer <ke3nv@erols.com>  
Subject: [7692] QRO CBers  
Message-ID: <199701020136.UAA25631@smtp2.erols.com>

Sorry for the bandwidth folks. You can hit delete if you have no desire to read on.

I have been reading quite a bit of jabber for the last few days from "comedy central" about the hillbilly truckers and cb radio. Enough is enough!!!! I drive a truck for a living, give me a break, PLEASE. Every body has to do something for a living. Try one time to pass the test



for a Comercial drivers license with all of the endorsements needed to operate one of those trucks, Im willing to bet you would fail, even if you studied for the test. In fact I know you would fail, there is no Help button on the dashboard!!!!

Scott W3CV my flame suit is on

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: mosinski@facstaff.wisc.edu  
Subject: [7753] QRP library sell-off update  
Message-ID: <199701021642.KAA04058@audumla.students.wisc.edu>

Dear QRP-L members:

The response to my post yesterday was overwhelming! The only items I have left are:

Your VHF Companion	\$3
Now You're Talking	\$5
MFJ-1270C TNC	\$80

I have sent messages to each of the interested buyers informing them of the availability of items they expressed interest in.

Unfortunately, my mail program "ate" a number of messages. Therefore, I apologize to the following members for not being able to individually thank them for their inquiry and to inform them of items being sold.

These individuals are:

Scott Rosenfeld, Scott Bauer, Kelly Ellison, and Bruce Muscolino

Sorry for the bandwidth and I wish all of the QRP-L members well in their radio pursuits.

72

Mark WD8NZP

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Marcus Leatham" <leatham@nortel.ca>  
Subject: [7770] QRP Power Levels  
Message-ID: <199701021921.0AA225080@nss2.CC.Lehigh.EDU>

A couple quick questions:

I've been a ham since 1969. QRP always meant below 10 watts. Who, how, when, where, and why did QRP all of a sudden become < 5 watts?

(Lots of rigs (FT990, TS850, TS130V) work well at 10 watts but have trouble below that. If QRP was once again expanded to 10 watts, lots of hams could be admitted into the QRP fellowship without having to modify their rigs. I have no problem myself with the 5 W QRP level as I built a new OHR 400 last October and I love it. Chuck K5FO showed me his CMOS Super Keyer III, and I put one of them inside the OHR 400. This makes a nice combo.)

If 73 means "best wishes", 72 means "almost best wishes"? :-) You can ignore this one; I am just poking fun!

Regards,  
Marcus KR5N

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: ac5ii@juno.com (Donald D Doyle)  
Subject: [7737] Radio Shack DSP  
Message-ID: <19970102.075901.5127.0.ac5ii@juno.com>

Howdy gang,

I have had a Radio Shack DSP-40 now for several months and am pretty happy with it's performance. The users's manual states an audio output of 6 watts. The audio output on mine is quite low but not distorted. My 1 watt Radio Shack audio amp is louder than the DSP! I'm about ready to take it back to Radio Shack for repair but before I did that I thought I would ask those of you on this list that have one if this is this normal.

72/73

Don Doyle AC5II  
Broken Arrow, Oklahoma  
ARCI QRP #9134, NORCAL QRP #1702, QRP-L #264, AR QRP #24  
Packet: AC5II@N50BC.USA.NEOK.NA  
E-Mail: AC5II@juno.com

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: bcutter@teal.csn.net (Bob Cutter)  
Subject: [7746] RS-12 QRP  
Message-ID: <199701021510.IAA08430@lynx.csn.net>

One of my resolutions was to get the WAS total up on RS-12 and last night there was KL7RS for a new one.

I use the split function on the IC 735, not the best solution as I cannot monitor my own signal but very useable.

72, Bob KI0G

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Dennis L. Edinger" <dedinger@ecentral.com>  
Subject: [7786] RS-40 Hash???  
Message-ID: <32CC3846.1E97@ecentral.com>

Back when, I bought a RS-DSP-40 for my son for Xmas. When we put it on his Kenwood 520 (using the external VFO for 12v power--black to chassis ground), the unit generated an untolerable amount of hash.

Have any of you guys had a similar problem? Do you have possible solutions or points to check?

de Dennis/w0gd qrp-l #482

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: amarriot@Direct.CA (Albert Daniel Marriott)  
Subject: [7794] SCAF audio problems?? help??  
Message-ID: <199701022322.PAA18538@aphex.direct.ca>

Hi,

Did someone recently post to this list who had difficulties with the audio, (ie too much audio suppression) in their SCAF? I am trying to build the SCAF from scratch (FAR board plus my parts) and am having some difficulty, as the signal is really attenuated. Anyone had similar problems, who may have solved this already? Any help appreciated, thanks.

Dan VE7CTN  
amarriot@direct.ca

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: QLF%[mimi@magic.itg.ti.com](mailto:mimi@magic.itg.ti.com)  
Subject: [7791] SIERRA ON THE AIR!  
Message-ID: <9701022215.AA08270@itg.ti.com>

From: Brad Bradfield QLF

Subj: SIERRA ON THE AIR!

Good afternoon QRP dudes and dudettes - -

Well, after what has seemed like eons dragging my feet for no good reason, I finally finished the Sierra/KC-2 and got it on the air. First contact was to LaGrange, GA from North Texas. Fourty-meters only for now, but I hope to get the other band modules together before long too. Hopefully by FYBO time.

The stability of the VFO is amazing and the KC-2 makes operating a dream!  
Great rig, Wayne and Bob.

I inquired some time back for information on raising the sidetone frequency up above 700 Hz where I tend to like it. Nobody was able to give me the exact information on how far to shift the capacitor though. As designed, with the .022 uF +/-10% capacitor at C41, the measured sidetone frequency was 630 Hz. To get to 750 Hz is a 19% frequency shift. Shifting the capacitor to .018 uF (19% lower) should do the trick. Cranking the math to find a capacitor that will give .018 when in series with .022 shows that a .1 should just about do the trick. In actuality, I ended up at a measured frequency of 769 Hz, which is a bit higher than I wanted, probably because of the +/- 10% tolerance stackup of the two caps. I think I'll try a .02 (two .01's in series) which should be right where I want it.

By the way, I recently bought an MFJ-259 SWR analyzer too. If you've never tried one, you'll wonder how you ever got along without it. Makes tuneup, particularly of the antenna tuner, a breeze. Well worth the bucks.

We now return you to your regularly scheduled fox hunt . . . .

72's es 73's,

Brad, WB0CGH

```
*****
Brad Bradfield, PE                      Electrical Design Engineer
(H) 817-321-2960                        Texas Instruments, Inc.
(W) 214-462-6230
```

Real men talk with their fingers!

QLF@MSG.TI.COM

WB0CGH@W05H.#DFW.TX.USA.NA

ARRL Life Member    QRP-L #377    SMIRK #4906    IEEE(M)    ARS #72

Collector of wireless and landline Morse keys and accessories.

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*****
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From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997

From: Harry Bump <bump@redrose.net>

Subject: [7751] SKN

Message-ID: <32CC06CC.13F6@redrose.net>

Hi Guys!

Well, after several years of inactive 'SKN's I finally made it! Kept my family up and awake beyond midnight (an event in itself) so that they all slept late on the 1st day of the year; that's when I unpacked the SKN gear. Made 4 real nice ragchewing contacts on 40m

using a homebrew '6T9' vacuum tube transmitter from the 1974 ARRL Handbook running a whoppin' 4 watts rockbound. Keyed the rig with a 'J-37' - it had been liberated from a military code training kit back in my novice days (a relative of the J-38, but with a bakelite base). Had my receiver on a separate antenna (my 80m dipole) and handled T/R muting by just cranking the RF gain back on the receiver when transmitting.

Awesome; it was quite the reminder that operating is much easier than it used to be. By the time I was comfortable with the straight key my wrist was shot..... it sure was good to see that vacuum tube glow in the shack. My next 'SKN' project is to build one of those

'regen' receivers to go with the little transmitter - until next year,  
the keyboard is back on  
the desk!

Wishing all the best to all on the QRP-L,

Harry, KM3D

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: lbbarley@feist.com (Bruce Barley)  
Subject: [7710] SKN - an observation  
Message-ID: <199701020338.VAA04755@wichita.fn.net>

>Reply-To: Bob\_Tellefsen-CNSE97@email.mot.com  
>From: "Bob Tellefsen-CNSE97" <Bob\_Tellefsen-CNSE97@email.mot.com>  
>  
>  
>Well, another SKN has come and gone.

40 mtrs was VERY noisy here, w/w qrm from freezing fog on all the power line  
insulators in South-Central Kansas, and the band was long. Heard our  
ubiquitous C08 friends yoop-de-uoop-di just above the Xtra portion of 40.  
Some Left Coast hams were weakly in there and I did pick up a CQ from W8DM.

Thinking to myself, "Hmmm... were W#XX calls included in the latest vanity  
block?" I went to work, jacked up the drive to red-line and answered with  
all of my 20 watts. YES! Ed Van Peenen in Kalamazoo, Mich. responded to  
my hail. Ed got his ticket in 1923 (born in 1906 makes him an even 90 years  
young), and was working with the same key he used during the '30's. "Made  
from dime store parts." That certainly made my J-38 look like a tike, still  
in knee britches by comparison. But then, what is first getting your ticket  
in 1978 versus having one from the days of yore in '23. Ladies and  
Gentlemen (?) that is almost 74 years of hamming. How many of us will be  
able to claim the same? And let me do say that his fist was as easy to copy  
as if he were sending from punched paper tape. Perfect form, without a bit  
of "swing" at 20+wpm. When the QSB finally put an end to the QSO, I felt  
very humble.

Every year, there are fewer and fewer of these grand old men still able to  
pass on their knowlege and lore. I feel very fortunate to have his call in  
by log, and to have made contact with someone who has lived 3/4 century of  
ham radio. From UX201A's to the latest highly-integrated, multi-layer,  
micro-processor controlled whiz giz from wherever...  
W8DM has been there, done that. I wonder if I will be able to say the same  
in 2038?

Bext DX to you in '97 and 73's  
Bruce Barley KB0PZD  
lbbarley@feist.com QRP-L #69

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: gsurrency@juno.com  
Subject: [7699] Slide switches, SKN, & TICKS  
Message-ID: <19970101.192830.3238.2.gsurrency@juno.com>

Re: Holes for slide switches.

I have been making holes for slide switches for some time by the following method:

Take an old slide switch ( a broken one or one of those flush jobbies from an old PC power supply works well ) and take it apart. Make sure the old switch used for the template has the same dimensions as the switch to be mounted. While holding the switch frame as a template in the intended location, mark and drill the holes for mounting the switch, and then attach the switch frame upside down.

Using a small drill, drill multiple holes inside the square portion of the metal frame being careful not to remove too much material near the inner edge of the square.

When enough metal has been removed by drilling, punch out the inner piece of the scrap metal to expose a roughly cut square. Use care if the metal is thin or steel.

Aluminum is relatively easy to remove in this manner.

Use a set of small hobby files to finish smoothing out the square hole, still leaving the old switch frame in place to protect the finish and act as a template for the tool work.

Remove the old switch frame and mount the intended slide switch in the hole just created, after removing any burrs from the edges of the hole with a knife or file.

This really isn't as hard as it sounds, unless you are particularly ham-fisted. I have even used the same switch for the template and the finished hole by being careful to not damage the switch frame. This method even works for the really small slide switches like those itty bitty ones R/S sells. I suppose there is a commercial punch for these things, but either it would be too expensive for the frugal ham, or hard

to find.

Even though a slide switch has some appeal, I presently have switched (!) to using small, high quality toggle switches, as they are much easier to mount and have a better feeling when operated. The choice is yours. Even the local Radio Shack has a pretty good selection of small toggle switches if you look around.

Hope this saves some nerves, and some skinned knuckles. :-)

-----

On another topic:

SKN (straight key night) was fun! I hadn't participated in many years, but heard all the clatter and joined in the fracas. All I had to use was one side of my Bencher paddle! Brought back all the old memories of my Novice days. Hope some of you got the chance to join in! Now I appreciate my keyboard and the keyers in my ARK30 and TAC-1 "twins" even more!

Dave, AI7R had such a good fist, he sounded like he was using a keyer. We had passed by each other several times, each of us in QSO with other hams, when he gave me a quick call to say "HI". My fist even improved a lot during the 4 QSOs and 2 hours I operated. Skip was very long and very short, so I worked one station in "soaking Seattle" and several other local hams in the Phoenix area. Now I guess I'll have to get a "real" straight key at the next hamfest.

BTW, all of my SKN was QRP on 40m with the TAC-1.

Say, that TICK keyer sure sounds like the perfect replacement for the venerable Curtis 8044ABM. Besides, the Curtis keyer has the annoying characteristic of changing weight as you change speed. I don't believe the TICK chip is afflicted with that problem. There are too many external parts for the Curtis chip anyway, and if the TICK works anything like the digitally programmed MicroChip PIC keyer in my TAC-1 twins, it is a much better solution and cheaper, too. I gotta get one! I'll have to replace the Curtis keyer in the ARK30 with the TICK :-)

Happy New Year to all! ;-)

72,

AB7MY

Gary Surrency

ARK30, TAC-1 twins for 80m and 40m.



From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
Subject: [7766] Smith Charts

Smith Charts are usually available at one's local university.  
It is available in PostScript and/or smith.gif from:

<http://marconi.uakron.edu/~wtm/smith.html>

73, Cecil, W6RCA, 00TC

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [7726] SPRAT #89, Winter 1996/7  
Message-ID: <199701020709.HAA28037@chuck.dallas.sgi.com>

Congrats to George Dobbs, G3RJV, and the group in G-QRP on yet another excellent issue. I got mine just before leaving for NM for a week of vacation time in the mountains of beautiful northern NM. Wound up in an RF hole, but that's another story for another time.

In the colonies SPRAT is old enough to vote, now being 21 years of age. :-) Congratulations to all for the longevity. That makes the G-QRP one of the oldest QRP clubs that I know about and the largest in existence. George has put a lot of time and energy into the publication and the club. Again, congratulations George. Three cheers and a pint to you. (Please, no flame wars on the colonies. I read my history books. :-))

Page 7 has Doug DeMaw's version of the PIXIE transceiver with 700Hz offset and a 700Hz single stage AF filter.

Numerous projects etc. once again. The way George gets so many projects into each issue is to print the schematics and parts list and leave all the other details out. Only the major projects get much text space. This is great. I'm sure there are some complaints from the newer homebrewers, but for most of the projects they are small and quick to build using ugly construction or breadboarding techniques.

Two things: I haven't figured out the exchange rate for the kits. :-) On page 42 are the SPRAT Binders from Adur Village

Press. I'd like to find someone in the states that may have something similar but with no printing on them. This would allow us to bind up original issues of QRPP (Doug admits to modeling the format and size after SPRAT), CQC Low Down, and other pubs the same format into a nice volume. I don't want to lose or throw away any issue of any of the publications. Too priceless to part with. IMHO.

If you need more info on SPRAT etc., <http://www.gqrp.demon.co.uk> or personally email to George Dobbs [g3rjv@gqrp.demon.co.uk](mailto:g3rjv@gqrp.demon.co.uk)

FYI

p.s. I thought that a pound was a measure of a chunk of beef. :-)

SIG

Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50  
EMPS QS0s=109 STATES(w/c)=34/2 DX=0

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Scottae4vq@aol.com  
Subject: [7698] Thanks for antenna help  
Message-ID: <970101215644\_612483282@emout20.mail.aol.com>

Group:

Thanks for all the advice and suggestions in response to my antenna dilemma. The group was basically against using mobile whips or "whip-dipole" configurations in the attic. Most seemed to favor lots of wire fed by TV twin lead and a tuner... some of you even sent diagrams of your own set-ups which are interesting !

Most practical advice was from Al (K0FRP) who recommended selling the house and moving to the country... haven't convinced the YL yet !!!

Seriously, thanks again to all who responded... I appreciate the help.

72's... Scott AE4VQ                      QRP-L #418

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: kb0rol@juno.com (Bradley L Mugleston)  
Subject: [7695] Thanks on Squelch Help  
Message-ID: <19970101.195532.10783.2.kb0rol@juno.com>

I would like to thank everyone for the help with my Squelch on my kids walkie talkies. From all the comments it probably can't be done, I can live with that. If I know it can't be done (with in reason) I won't worry about it.

Brad, KB0ROL

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Jim W7LS <w7ls@brigadoon.com>  
Subject: [7722] To:WB6BYU re: 40-40  
Message-ID: <199701020629.WAA07384@olympic.brigadoon.com>

Hi, Dale. I got the info on the revisited 40-40 and am eternally grateful. I don't find your e-mail address anymore, so I am hitting you here. Thank you very much for mailing it. I'm going to get the parts to make the mods. Hope to see you at Rickreal.. 73 de Jim, W7LS

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: jbartac@max.state.ia.us (jbartac)  
Subject: [7752] Tuner Efficiency + Tuner tuning hints  
Message-ID: <32CBFD37.3043@max.state.ia.us>

I've been following the thread about tuner hints and tuner efficiency. Here are a few brief, practical observations on my KW SPC tuner.

I read a series of articles about tuners in QST and also the QRP Quarterly a while back. My tuner is the Murch KW "ultimate circuit" tuner which I have rewired to DeMaw's SPC circuit so that it would tune down to 160 - 10 instead of only 80 - 10 in the original design.

After absorbing all I could from the articles I tried tuner settings intended for higher efficiency. These settings all were steered towards setting the output capacitor to its maximum setting (always gives minimum inductance). I found that on 160 thru 20 meters, I could set the output cap to max and leave it there, yielding a tuner with only 2 variable controls! Aha, simplicity and efficiency too.

On the HF bands above 20 meters the best way to find settings to log for future reference is to set both caps for median capacitance then adjust the roller inductor for lowest SWR, followed by tweaking the caps but no additional adjustments to the inductor.

After logging the settings on a chart for quick QSYing, I discovered one

more benefit: within a band I can retune by adjusting only the roller inductor. Now I have a tuner with only one variable control! This is great, as I can twist the dials to the logged presets, tweak the coil and input cap for best match, and QSY up and down the band using only the roller inductor for final tweak before rag chewing begins. Even on 80 meters I can QSY from 3530 Khz to 3700 Khz with the output cap set on 5.0 and the input cap on 2.0 (markings on my caps are 0.0 = minimum and 5.0 = maximum).

The antennas in use at KD0CA are both fed with 300 ohm ladder line (fits TV antenna hardware) and I use a very simple 1:1 choke balun coming out of the tuner. The balun consists of 4 torroids out of a Spi-Ro 1:1 balun slipped over a piece of RG-59 coax about 18 inches long, which is just long enough to reach the ceramic knife switches for selecting the feeder to the 16.5 ft tall vertical GP on the roof (40 - 10) or the 127 foot long inverted ELL (160 - 10).

I hope this encourages and helps everyone who is trying to understand their tuner and develop reliable antenna philosophies to carry them through their respective ham careers with a minimum of angst.

72,  
Jerry L. Bartachek KD0CA <><  
Washington, IA

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Bob Kellogg <ae4ic@nr.infi.net>  
Subject: [7717] Tuner tuning hints  
Message-ID: <199701020538.AAA05214@mh004.infi.net>

Well, gang, I've been doing some more tuner testing, and have a couple of hints to pass on.

1. Some of the guys mentioned that when using the Pi design tuner there is often more than one place to achieve a match. Further, it was stated that the most efficient match would be the one with the least inductance.

I've been testing switched inductance T-match tuners, and can sometimes achieve a match with 2 inductance settings. In *every* case the lowest inductance setting is the most efficient.

Also, one of the things I'm checking is the "bandwidth" of a tuner setting. That is, once it's set, how far can you move the frequency before the SWR is greater than 1.5. When the match is made at the lowest inductance, the Bandwidth is enhanced, sometimes dramatically. (One case was *\*6 times\** wider, most cases at least 30%)

2. Tuner efficiency seem to deteriorate as the difficulty of the match increases. So, If we use a tuner, we're smart to have an antenna and lead-in that presents an SWR less than 3.0:1. Most tuners will handle near mismatches fairly efficiently. This may explain why the G5RV is so popular.. even though it must be used with a tuner.

3. Just to put things in perspective, Paul, KB8N, defines tuner efficiency like this:

High Efficiency = 80% or better  
Medium Efficiency = 50% to 80%  
Low Efficiency = Less than 50%

When we accept the above figures as reasonable we are beginning to understand what a tuner can and cannot do for us.

CUL,

Bob Kellogg, AE4IC, Greensboro, NC  
Probably, but not nececelery. - Benny Hill

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Bill Kelsey - N8ET - Kanga US" <kanga@mail.bright.net>  
Subject: [7689] Update - Kanga Special Prices Page  
Message-ID: <199701020109.UAA20161@mail.bright.net>

I have already added some more kits to the special prices page, and in the two hours between my first note to the list and the update, over 20 people access the page - if you were one of the twenty - have another look!

the special pricing is at:

<http://www.bright.net/~kanga/special.html>

73 - Bill - N8ET  
Kanga US  
kanga@mail.bright.net  
<http://qrp.cc.nd.edu/kanga/>

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Jim Hydzik <congress@magpage.com>  
Subject: [7782] W0LK 7 Q's in 1st 11 min in FSFD-20M  
Message-ID: <199701022035.PAA13429@alaska.magpage.com>

Bruce, Floyd, BoB, Bill, Glenn, Rick, all you guys,

Hard to believe how much better the band is today than yesterday. When Bob/W0LK put out his first CQ it was like the start of Field Day. Heard him work 7 stations in his first 11 minutes at bat. Way to go. Looks like the Xmas antenna party (relatives can always count on it) to get the 20M Delta loop up vertically paid off with Bob's generous 599. He is still running S4-S5 and we're quite away from greyline enhancement.

N9ZZ also had a fine sig in here at 6 AM this morning...got both of 'em.

Look for both of them later this evening on the posted schedule.

Best of QRP to all, Jim K3QIO Delaware

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Bruce Rattray <RATTRAY@siast.sk.ca>  
Subject: [7777] W0LK the Fox  
Message-ID: <4514141402011997/A33209/RIEL/11B113840B00\*@MHS>

YAHOO! YAHOO! YAHOO! YAHOO! I got a fox, I got a fox, I got a fox!! Well ok it was on 20 mtrs, not 40, but I did work W0LK, Bob, at 2000Z, 14.057 MHz... How sweet it is!!!!...there's more out there today...which way did they go? ...which way did they go?....sniff, sniff,sniff....I'm on the trail! ...wait a minute...what happened?...did I say the above?...can you imagine a grown man like me, 34 years a ham and all of a sudden the THRILL is back!... I guess I now know why I like QRP (5 watts here)...looks llike the fun and learning is really back...good luck everyone!...73 Bruce(VE5RC) QRP-L#886 "QRP! How sweet it is!"

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Jim W7LS <w7ls@brigadoon.com>  
Subject: [7792] Want Isotron 80 meter for qrp  
Message-ID: <199701022224.0AA15113@olympic.brigadoon.com>

Hi. Looking for an 80 meter Isotron antenna for qrp operation in the field.

I know it is not that efficient, but I want it anyway. Please advise as to price and condx. Tnx/73 de Jim, W7LS

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Jim W7LS <w7ls@brigadoon.com>  
Subject: [7721] Want Screwdriver antenna for qrp  
Message-ID: <199701020620.WAA06799@olympic.brigadoon.com>

Yo-howdy, gang. I do some qrp mobile on 80 and 40. I am looking for a Screwdriver antenna to use for such activity. If you have one to spare, please state price and condx. Tnx/73 de Jim W7LS

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: tahrens1@juno.com  
Subject: [7711] Where de hunt?  
Message-ID: <19970101.222450.4895.6.tahrens1@juno.com>

I even looked to make sure I was on the right band! I hear 6's, Cubans, & others, but no group of hunters.

Am I on the wrong date.. again?!! hehe

Tim W5FN

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Joe Gervais <vole@primenet.com>  
Subject: [7700] Re: 20 mtrs (Alabama FSFD)  
Message-ID: <199701020308.UAA22618@primenet.com>

Bill (W7KXB) wrote:

>

> Did not hear N4S0. Meanwhile, anyone hear KS4L?

I bagged N4S0 at around 2030 UTC on 14.054. Got lucky - turned on the rig, tuned around through a few QS0s, and there he was. Reasonable sig (449 here). That leaves me with three states left for QRP WAS - wahoo!

BTW, did anyone notice the flood of JA's across 20m?  
Most were around 559-579 QSB, but couldn't get any of  
them. Seemed like many were in a contest or something?  
A JA version of SKN?

Gotta run try my luck with the Fox... See you all out  
there!

PS- Hey Bill, see you Saturday?

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Kevin Muenzler <muenzlerk@uthscsa.edu>  
Subject: [7769] RE: 20M Dead?  
Message-ID: <01BBF8AF.9FA55B40@muenzlerk.uthscsa.edu>

On Thursday, January 02, 1997 8:04 AM, N4JS[SMTP:jsielke@pobox.com] wrote:

>  
>Hey, is it me? I just fired up the old Argo on 20M, to get ready for a  
>shot at FSFD Ark. I can hear about 2 signals! One TTY, and one CW. I even  
>tried the IC720A, and it's the same! My Beam LOOKS OK! Is it me, or is 20M  
>DEAD?

>

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>

It's been pretty dead here in Texas too.

Kevin, WB5RUE

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997



From: "T. PETTIBONE" <tpettibo@NMSU.Edu>  
Subject: [7723] Re: a17fs/kh6 020615zJan97 off til 1000z  
Message-ID: <Pine.A41.3.95.970101235510.33024A-100000@hector.NMSU.Edu>

Jim:

Heard NH6SV calling cq on 7040 but nothing else heard. I tried to call him but no go. Good luck. Have to work tomorrow so 1000z is out! 72/73

Tim AB50U

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: jeffa@ix.netcom.com (Jeff Anderson)  
Subject: [7743] Re: Antennas TRUTH and cycles  
Message-ID: <199701021427.GAA08898@dfw-ix4.ix.netcom.com>

Bob Finch wrote:

>It also got me thinking about three things;  
>  
>1- There is a very cyclical nature to the postings on this  
>group. (Maybe ALL groups, but I only have time for two.) Not  
>only do topics re-appear, but alot of the types of responses  
>too ! Someone took Cecil on when Cecil suggested  
>that Buene could be wrong about some conjugate matching stuff.  
>  
>Then he said that Buene has alot of paper on his wall  
>that sezs otherwise, and Cecil had better prove once again,  
>mathamatically, what amounts to how Mr. Smith's charts work  
>(and why).  
>

Hey! I think the "someone" mentioned above is me!

Hi Bob,

Let me first say that I think Cecil has made alot of great, informative posts to this group. And if he had, as you say, "suggested that Buene (sic) COULD be wrong" (emphasis mine), I'd heartily agree with him.

However, he didn't suggest that Bruene could be wrong; he stated that Bruene WAS wrong - a different kettle of fish, indeed.

Describing Warren Bruene as simply "a Mr. Brune" (sic) might have given an uninformed reader the idea that Bruene was just another Joe Shmoo

from Palookaville, and I hope it's clear that he's not. Unlike the vast majority of us who, like me, are simply tinkerers in RF design, he's someone that made his living at it for over 40 years, and has been publicly recognized for his contributions. If he's not an expert, who is?

Could he be wrong? You bet! Is he wrong? Well, the issue has been argued over time and again on the rec.radio.antennas newsgroup (fortunately this list has been spared the interminable wrangling that has taken place there). And in my opinion the jury's still out. I'd love to see someone \*calculate\* the output impedance of an amplifier and put a stake, finally, through the heart of this issue. (This is what I meant by "prove it mathematically" in my previous post. Sorry about the amibiguity - it had nothing to do with Smith charts.)

>I like LB's posting about the frustrations of learning  
>these things for oneself ESPECIALLY with the availability of  
>the CRAP that McCoy published (mentioned above).  
>

I must have missed the previous posting(s) discussing this. What did McCoy say in his article?

Regards,

- Jeff, WA6AHL

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Clay N4AOX <wyn@worldnet.att.net>  
Subject: [7760] Re: Antennas TRUTH and cycles  
Message-ID: <32CBFDD8.4EFC@worldnet.att.net>

Jeff Anderson wrote:

>

>

>

> Well, the issue has been  
> argued over time and again on the rec.radio.antennas newsgroup  
> (fortunately this list has been spared the interminable wrangling that  
> has taken place there). And in my opinion the jury's still out.  
^^

Do you mean the jury is still out on whether this list will be continue to be spared or that Maxwell may be wrong? As to the former, it appears the tide is turning. And, while we are roasting the antenna

pontificators, what about that rascal, Kurt Sterba? ;-)

Another thread worthy of a few months discussion would be "Why does my SWR change when I shorten my feedline?".

ObQRP: I am tuning currently tuning 7039 to 7041. Hear W4MFR, W6FRM, K0KJ, but no Alaska :-(

72/73 es Happy New Year  
Clay N4AOX

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Roy Boggs <rboggs@pcc-uky.campus.mci.net>  
Subject: [7716] RE:Antennas TRUTH and cycles (Long response)  
Message-ID: <2.2.32.19970102052828.006ae7e0@pcc-uky.campus.mci.net>

Hello Bob , (also to the group if interested)

I always enjoy reading your well worded postings to QRP-L and this one is no different. This one I read 3-4 times to be sure of it's content. Also, glad to be a source of amusement during your stay in the hotel. 'Us' Gomer types delight in making the ol' orbicularis oris stretch and twist. But it is the three points you cited, that my funny evoked from you, that has got me to chain-smoking Chesterfields.

>I'm sitting in my hotel room before work reading 'the digest' and am very  
>amused with Roy's (KC40) posting here about taking the engineers into a  
room >and not letting them out 'till he gets his dream tuner.  
>It also got me thinking about three things;

Sometimes I write postings, not to reflect my own narrow minded and selfish thoughts, but to in some ways to vocalize the concerns of many non-technical hams of our list who are too intimidated to ask basic 'silly', common questions for fear of public rebuke (like which tuner type doesn't soak up all my watt-ie poos?). You have all seen it.....ask a stupid question and the tekkies get all indignant...and say 'go dig it out for yourself' (which is exactly what Bob Kellogg is doing with the Witt study, bless his heart). In fact, my entire 'diatribe' was a light-hearted way of expressing the frustration that many of us have felt on the subject of ATU's.

Most of the frustration IS as L.B. stated...the quest for the knowledge; however, let it be known that FRUSTRATION BEGETS AGGRAVATION and disillusionment and eventually disinterest. Also we wind up buying things 5 times before we get what works. IMO most of us want a working knowledge of our hobby but also want to cut to the chase...not earn a E.E. degree in it.

If the learning curve is too steep and time consuming in our fast paced lives, the pursuit becomes baggage. For me it is only a serious hobby that ranks far behind my wife and two little girls and their lives.

SIMPLE: I want to know what time it is....not how to build an atomic clock!

>2- There is also a need to periodically remind the non-engineer hams amongst us, just what the circuit ... designers do.

Come on!...when eat I pork chops, I don't want to know how you killed the hog, scraped it's hair, sliced open it's belly to get out the guts, then sawed it down the backbone! Bottom line: except for those that are a student of electrical and electronic theory and concepts (super!), the rest of us are RESULTS driven. You want the crowd to cheer?..give them a Norcal 40A, Sierra, SW40, Tick keyer, etc....something that they can stuff the board and get on the air with and have FUN! I think we all have enough sense to know and appreciate how complex the work is that designers do. [Now Mick, do you have enough raw umber in that spray gun..this is the Sistine Chapel!]

>3- Anyways, don't ask engineers to solve your {equipment} design WITHOUT first knowing ALL the demands, variables, and restraints that are involved.....

Well, when it gets that durn complicated, I suspect that many will just go outside, put in a fresh chew of Red Man, and burn a dog on the grill 'cause if McCoy, DeMaw, Buene (or Bruene), Orr, Maxwell, Lewallen and (Lord knows who else) can't agree, then why waste time asking? It's easier to just stick up a dipole any old way and go to town! I could have logged 10,000 contacts while they are trying to balance my imbalanced currents. Which leads me to other points in your posting:

IMO some of the engineers of our group should not consider this audience a place to put on display their intellectual prowess, sparring..jabbing..and trying to put an end to discussions with an ego-driven god-like finality, but as a forum where fun, learning at all levels, and a free exchange of ideas and information is foremost. The vast majority of us sit back and observe the pugilists with eyes glazed over and not the least impressed....for this reason: when the smoke clears, we wonder why they (pundits and engineers) cannot make recommendations based on real life situations. After all, they know all the details...we don't. Good advice...now that's worth it's weight in NE602's. And I think L.B., Cecil, and others give simpletons like me GREAT antenna/tuner advice sans controversy. (By the way, is everyone printing the postings from these guys and storing in a notebook for future reference? No? Well now, son...lissen here).

In closing, Bob, it appears that your amusement from me quickly gave rise to 3 admonitions to our boys and girls of QRP-L, and to them I apologize. I gotta get out of the comedy biz if it's gonna bring caustic clouds and rain.

Thousands of comedian out of work and here I am trying to be funny. For the lousy metaphors I used, sue me; blame Al Gore, the hoity-toity metaphor king.--)

>From the hillbilly, best 72,

KC40 Roy

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: gsurrency@juno.com  
Subject: [7696] Re: Attaching Wires to a Solar Panel  
Message-ID: <19970101.192830.3238.1.gsurrency@juno.com>

How about trying that stuff they use to repair auto window defogger grids? It is surely conductive, a liquid or a paste, and I think you can get it from auto supply stores. It might even be in Walmart's auto section. A small amount of this stuff and a piece of copper flashing or even a 1/4" or smaller spade connector like the one on your car's window defogger might be the solution. Look closely at it and you'll see what I'm talking about.

Good Luck!

AB7MY  
Gary Surrency

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: James Bennett <james@research.nj.nec.com>  
Subject: [7754] Re: Attaching Wires to a Solar Panel  
Message-ID: <Pine.sol.3.91.970102114334.24046A-100000@shakti>

Jerry,  
While I have not used it for this specific application, I would suggest trying conductive silver epoxy. One source is:  
MCM Electronics Phone 1-800-543-4330  
Circuit Works conductive epoxy  
Cat. #21-2225 @ \$15.25  
I use this and similar materials to attach leads to all types of small crystal samples on which we do measurements. Just be sure the surface is clean of all grease etc. Isopropyl alcohol helps here.  
Good Luck  
James Bennett

KA5DVS

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: gaponoff@halcyon.com (Mark Gaponoff)  
Subject: [7757] Re: Boy Scout kits help  
Message-ID: <v01510100aef1a341924c@[206.63.33.50]>

Folks,

In regards to my posting looking for recommendations  
for kits for boys working of the Boy Scout Radio merit  
badge...

Here is a summary of the various replies I've received.  
I hope those quoted will forgive my paraphrasing and  
bandwidth-saving editorial chainsaw...

=====

"'AB7HI' Stephen Lee" <slee@u.washington.edu>

Dave Matthews <dmatt@roch875.mc.xerox.com>

The Whittemores <wb1edi@scoot.netis.com>

WB8IJJN, NilsBull@aol.com

Darrel, BSA, WD6BOR@aol.com

Ed, N5EM, Cubmaster, Pack 730, N5EM@aol.com

tedkell@juno.com (Ted Kell)

ka7you@juno.com (rodney j johnson)

TenTec 4-band regenerative receiver kit

\$24 each or 5-pack (plus spare parts) for clubs \$110

"Brian.Buydens@usask.ca" <buydens@duke.usask.ca>

Build a crystal set, and understand it.

Ken Brown, n4so@juno.com

Radio Adventures Corp kit \$29.95, copy W1AW for  
morse code practice.

Bob Berlyn - N1PWU, hbelectronis@BusinessOn.Com

One Chip AM radio kit, \$14.95

"Bill Kelsey - N8ET - Kanga US" <kanga@sparticus.bright.net>

SUDDEN receiver kits for 40 meters, \$20 for group.

"We had several scouts build them, and after I drained  
off the extra pounds of solder that had been applied, they  
all worked."

kf2ph@juno.com (Nick Franco)

Pixie2 from Chuck Adams, PC board from Hands for \$10 (?).  
With the 3.579 color burst crystal, able to listen to W1AW  
code practice every night.

=====

Well, the overwhelming majority recommended the TenTec  
4-band regenerative receiver kits, and I have to take that  
recommendation seriously. For that kit, there were the  
following additional comments...

Dave Matthews

The manual has a theory section, tests as the unit is built,  
but the board does not have a solder mask so it will be easy  
to bridge.

Nils

A Kanga "Sudden" receiver might be just as good a deal, 'cept  
that it's CW/SSB only. Dan's SP&K is not for beginners.  
Crystal set: the wonders of toilet paper rolls, enameled wire  
and a decent set of hi-z phones.

Ted Kell

During the Jamboree on the air in October, our scouts put  
together the TenTec 4 band regen receiver kit. It was the  
darndest thing I ever saw. For SIX hours there was not a peep  
out of them, no horse play, no running about, just an occasional  
"please pass the iron". I have never seen such concentration.  
At the end, at least 7 of 8 receivers worked.

=====

Miscellaneous useful information...

The Whittemores <wb1edi@scoot.netis.com>

The new requirements (96) no longer require building anything.

Too bad huh [I agree]. URL for merit badge requirements...

<http://www.usscouts.org/cgi/mbreq.cgi>

=====

Well, I went back to some of the boys and the leaders, and  
they all seem willing to try to dig up a little more money  
for the TenTec kits.

I also have found out that the "Radio" merit badge class I  
am doing could also, with little extra effort, also cover the  
"Electricity" and "Electronics" merit badges, so the chance to  
cover 3 merit badges should help motivation.

Since this class will go over about 3 months (1/2 hour per

week at the end of the troop meeting) plus 1 or 2 weekend days, the prospect of 3 merit badges will help. (We have already had about 3 meetings, covered Ohm's law and the concept of frequency/wavelength.)

I will for sure qualify any scout who gets any ham license, since the license is harder than the merit badge. I am also going to push morse code, and I will NOT tell them it is hard, so they will learn it easily.

I will be calling TenTec to get more detailed info on the kits, and getting a firm count of how many I need to order...

73, 72, es Thank you all very much,

--Mark

-- Mark Gaponoff (gaponoff@halcyon.com) 73's de KJ7EM.

"Life has meaning, but a poor signal-to-noise ratio."

-- Ann Gaponoff (gaponoff@halcyon.com)

"Si hoc legere scis, nimium eruditionis habes."

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997

From: "Paul R. Valko" <prvalko@oakland.edu>

Subject: [7771] Re: CB-MIS-ID-Phobia

Message-ID: <Pine.OSF.3.95.970102141006.30329B-100000@saturn.acs.oakland.edu>

On Thu, 2 Jan 1997, Ed Tanton wrote:

> Hi All... I think the primary reason many hams have such an aversion to  
> CB'ers is that we are often misidentified as (being) CB'ers by the general  
> public.

> "Is that a CB radio?"

Well, actually it is a HAM radio. It's a lot like a CB radio, except to use it you have to pass a government test. It sounds like a hassle but it's not, it's a lot of fun.

(brief pause to look for a slight positive reaction)

You know a CB has forty channels, right? Well, a HAM radio has THOUSANDS of channels some can even send TV pictures and talk on satellites.



It's a hobby, are you interested?

Anyone else use any other simplified introductions like the above? I'd like to hear them. It seems most hams suddenly put on the GEEK hat when asked about the hobby, the same guys that call Radio Shack "Rat Shack" come to mind :-)

73 =paul= W8KC

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Bob Follett" <bfollett@ditell.com>  
Subject: [7768] RE: FDIM 97 Registration List  
Message-ID: <199701021915.MAA30253@orion.ditell.com>

GANG:

The following represents all the folk who have paid their FDIM 1997 registration last year. Now is the time to start making plans for Dayton! To register for FDIM 97, send a check in the amount of \$30 US or equivalent, to Bob Follett, at the address in my signature file.

#### FDIM 1997 PAID RESERVATIONS

LAST	FIRST	CALL
Benson	Dave	NN1G
Carr	Mike	WA1QAA
Corbin	Lowell	W8IQB
Corbin	Robin	NI9R
Everhart	Joe	N2CX
Gaffney	Bernard	N8PVZ
Greer	Jeffrey	WD4ETO
Hintz	Gus	W2ZHA
Karty	Steven	N5SK
Lynch	Martin	KA1LXG
Midkiff	Monte	N7TAU
Passione	Vince	WA2ECP
Windish	Walt	KB2JE
Winkler	Dan	N7IVR

Notify me by E-mail of any errors, omissions, etc.

73, Bob

-----  
Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS  
2861 Estates Dr. VOICE: 801.649.6457  
Park City, UT 84060 E-mail: bfollett@ditell.com

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [7727] Re: FOX Report: Ol' Kenwood's Ordeal  
Message-ID: <Pine.SUN.3.90.970101232442.7263E-100000@vortex.sage.dri.edu>

Darn,

Forgot all about a fox tonight!

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: N4JS <jsielke@pobox.com>  
Subject: [7795] Re: FSFD  
Message-ID: <Pine.LNX.3.95.970102182618.6786B-100000@jsielke.ppp.cyberenet.net>

On Thu, 2 Jan 1997, Robert G. Seymour wrote:

> It was a real struggle toward the end of this shift.  
> Will be on 7042(plus or minus u know what) from 7-9 PM CST tonight.  
>

Not a peep on 20 here. 40 sounds good tonight. Hear an XE1 599 on abt 7035.

Had a nice ragchew with K0EVZ (also QRP) in Mn. Will be looking for you between 8-10 EST.

\_ \_ \_ \_  
 / \ / \ / \ / \  
( N )( 4 )( J )( S )  
 \\_ / \\_ / \\_ / \\_ /

John L. Sielke n4js@amsat.org  
n4js@pobox.com n4js@hotmail.com n4js@n4js.ampr.org  
<http://www.pobox.com/~n4js>  
QRP-L #884 QCWA

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Bill Myers <bmyers@destin.nfds.net>  
Subject: [7714] Re: FSFD: Alabama  
Message-ID: <1.5.4.16.19970101231927.2157e262@destin.nfds.net>

At 10:23 PM 1/1/97 -0600, Randy Moore wrote:  
>I was expecting a Fox-like pileup, but not even close. 34 contacts in 4.5  
>hours was a bit disappointing. Don't know if it was propagation, family  
>and football on New Years, or just not many people needing an Alabama QSO.

Me thinks the bands were not in your favor...

I listened on all three bands and never heard you, then again you and I may  
be close enough to be in the dead zone.....

I don't need Alabama, however, I still wanted to work you.

Oh Well.....

72/73

--

Bill Myers      KK4KF      Grid - EM60rk  
FISTS#2390    QRP-L#755    ARCI#9282    scQRPions#42    CQC#386  
Snail Mail    P. O. Box 178    Shalimar, FL 32579  
e-mail        <bmyers@destin.nfds.net>  
homepage <http://destin.nfds.net/~bmyers/>  
              (Reptiles/Emergency Services/Amateur Radio)  
CHECK OUT THE FISTS INTERNATIONAL CW CLUB U. S. HOMEPAGE  
<http://n9nvv.qrp.com/~fists>    (That's N 9 N V V)

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Joe Gervais <vole@primenet.com>  
Subject: [7749] Re: FSFD: Alabama  
Message-ID: <199701021559.IAA17330@primenet.com>

Howdy Folks,

Randy (KS4L) wrote:

>

> I was expecting a Fox-like pileup, but not even close. 34 contacts in 4.5  
> hours was a bit disappointing. Don't know if it was propagation, family  
> and football on New Years, or just not many people needing an Alabama QSO.

Well the Propagation Gods certainly didn't smile upon  
you :-) but on the other hand, there were two Alabama  
FSFD "Foxes" so that cuts your potential hunter pack in  
half right there. Given that, I'd say 34 2xQRP QSOs is  
great for 4.5 hours!

As for the pileup I figure that when you combine the  
spread-out schedule, the existence of two AL "Foxes",  
and the fact that most folks had yesterday off (hence  
they could hunt AL throughout the day), I don't think  
there could've been a critical mass to make a QRP  
feeding-frenzy pileup like Fox night. :-)

Once folks go back to work and many of us are all  
crammed into the evening hours again, it should get  
very interesting. Yesterday was lots of fun though.

Great way to go for 2xQRP WAS! I love this!!!!

Cheers de KC7NEV,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Ken Lopez <kjllopez@earthlink.net>  
Subject: [7701] Re: Hamstick Dipole  
Message-ID: <32CAF9A5.2AA2@earthlink.net>

Cecil A Moore wrote:

>

>

> Hi Ken, it would be a waste of time. If it worked, don't you think  
> a lot of people would be using it? On 80m, a Hamstick is 10+ dB down  
> from a Bugcatcher. On 80m, a Bugcatcher is 10+ dB down from a dipole.

> With QRP power so meager, why are so many people willing to throw away 99% of  
it?

Hi Cecil,

Yes, I am aware of the problems as I have operated mobile a lot with  
bugcatchers, and W6AAQ screwdrivers, etc. My thought was for a

helically loaded portable beam on 20m, or 15m. It seems that I have seen construction articles in this direction. I don't believe I have ever seen any data on the efficiency of helical loading. Any merit to those ideas? I have always operated with either dipoles, Inv. V, or W3EDP, and had great results, so it is mostly a mental exercise.

Thanks for the response,  
Ken, N6TZV

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Dave Adams <adamsclan@netgate.net>  
Subject: [7693] Re: Headphones  
Message-ID: <32CB19D2.112D@netgate.net>

Actually, I went in to buy these headsets the other day and was told they went off sale the day after christmas.

73 de dave, n9uxu

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Jess Gypin <jessqrp@concentric.net>  
Subject: [7687] Re: home page URL  
Message-ID: <32CA8019.2FE9@concentric.net>

Steve Hurst wrote:

>  
> Mr.Gypin,  
>  
> Please send me your URL address, I saw your post on qrp-l. I tried to  
> access your site and get an error message. You stated your address as:  
>  
> http://home.concentric.com/~jessqrp  
>  
> Is this correct ? Thank you very much.  
>  
> 73,  
> Steve Hurst  
> KA7NOC  
> dit dit  
>  
> P.S. Check out my site at URL:  
>  
> http://www.magiclink.com/web/shurst

>

> and let me know what you think, I have had it online for only a week now.

Open mouth insert keyboard #@|<- Corrected URL is  
<http://www.concentric.NET/~Jessqrp>

SRI  
Jess N0TFI

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [7718] Re: Hookup Wire ?  
Message-ID: <199701020550.FAA27191@chuck.dallas.sgi.com>

I can testify to the fact that the wire that Jim has is  
pretty good. I got 5,000' from him. A lifetime supply.... :-)

Not affiliated with Jim in any way, just a happy customer.

I haven't run the test to see how it stretches over long spans yet.

dit dit  
SIG  
Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50  
EMPS QS0s=109 STATES(w/c)=34/2 DX=0

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>  
Subject: [7784] Re: hv electrolytic source?  
Message-ID: <Pine.A41.3.95b.970102131154.67318B-100000@homer26.u.washington.edu>

Yes, try: Antique Electronic Supply Phone: (602) 820-5411  
6221 South Maple Avenue FAX: (602) 820-4643  
Tempe, AZ 85283

Also, there is a company called Frontier Electronics which will  
rebuild your old capacitors. Don't have their address immediately  
handy but their phone number is: (701) 378-2341

I've patronized Antique Electronic Supply and consider them a very  
good company to do business with. Frontier was recommended to me by  
some very satisfied Hams who have had capacitors rebuilt by them.  
Enjoy and save this info!

Stephen Lee, AB7HI, Tacoma, WA  
slee@u.washington.edu

On Thu, 2 Jan 1997 BWHITTEM@mailgw.sanders.lockheed.com wrote:  
> does anyone know where to get replacement electrolitics for old tube  
> equip? <snip>  
> barry whittemore  
> wb1edi <http://www.netis.com/members/wb1edi/>

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: ed.welch@cheaha.com (ED WELCH)  
Subject: [7712] Re: Internet Blues (longer)  
Message-ID: <8CF4516.0004001382.uuout@cheaha.com>

-> notice said that an annual \$50 fee would be required in order to be  
-> kept in the system. Those organizations electing not to pay would  
-> have their domain names removed from registration at the end of  
-> December, 1996.  
->  
-> It -might- be that such a thing may be happening. Maybe I'm wrong -  
-> only time will tell. The payment notices were not sent out via  
-> snail mail, where they might get sent to an organization's A/P  
-> department; they were sent out via Internet e-mail. Quite possible  
-> that they were deleted or dismissed as bogus mail messages.

Not trying to take up for Internic, but they \*did\* send me a bill via  
snail-mail. It might be that that the organizations service provider  
doesn't have the "A/P" departments email address correct. There's a  
form you file with Internic stating "who to contact" and so forth.  
I know that I had that problem.

...and friends, that just about sums up my knowledge of the workings of  
Internic (just enough to keep my little domain up and running. :) ).  
FWIW.

72/73  
Ed Welch KF4KRV  
QRP-L #873  
Luverne, Alabama  
Crenshaw County - Grid EM61

+-----+  
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----  
+-----+

> Isn't "time" a 4-letter word? <

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: rright@primenet.com (Roger Hightower)  
Subject: [7775] Re: LDG QRP Tuner Kit (Long)  
Message-ID: <199701022009.NAA21401@primenet.com>

At 10:57 AM 1/2/97 -0600, Bob Tellefsen-CNSE97 wrote:

>Well, I finally received my kit from the group buy, just before Christmas.  
>It is built now, and in service.

>

(snip)

>Construction comments:

>I had some problems in three spots.

>1. Winding the toroids. The holes are not side by side for each coil, but  
>offset a bit for the beginning and end of each winding. It took me a few  
tries

>in winding the toroids to get the ends to come out near the holes. You  
have to

>start winding in the right direction.

>

Just curious. Are you left-handed? Takes a right-hand wind to make them  
come out right.

>2. The SWR sensor toroid just asks for a bifilar winding. I wound mine with  
>the two wires parallel, as I think of bifilar, and could not get the trim  
>capacitor to null. So, finally pulled the wire off the toroid and twisted it  
>together for its length. Rewound the toroid this way, and the null works.

>

Got lucky there...I always thought bifilar was twisted together.

>5. Manual. Those of use who have been spoiled by the old Heathkit  
manuals, and

>lately the manuals for the many excellent QRP kits will be disappointed in  
this

>>manual. I consider myself to be a reasonably competent kit builder, but this  
>one took longer than I feel it should have, due to having to scratch for  
>information that could easily have been given in a sentence or two.

>

YES! Without the QST article it would have been much more difficult. This  
is not a beginner's kit.

>Operating comments:

>1. Fast! When I first change bands and key the rig, the buzz of the relays



>seeking a match is startling. I've unkeyed more than once by reflex.  
>  
>2. The match is often in the 1.5-2.0 swr range. I have to use the push  
buttons  
>to step it down to a closer match. The sensor toroid has only the center  
>conductor of a piece of coax passing through it to the PC board. I'm going to  
>try a short piece of stiff wire formed in a half turn over the toroid to  
>slightly increase the coupling and see if that helps. At least it may  
increase  
>the sensitivity so my 40-9er can trigger it (when I get the 40-9er working,  
that  
>is.)

I use a bare wire from the ant center pin to through the toroid. Measured  
with my WM-1, I get slightly lower than 1.2:1 in the auto mode.

>

(snip some more)

Guys and gals, this is a neat kit. It will fit in the Sierra, OHR-400 or  
classic, any of the Heath HW-7,8,9's and probably lots of others. It's  
fast, the noise is not objectionable, and a great alternative to those big  
MFJ boxes you have to twist knobs on.

72/73 de Roger N7KT (Ex-AA7QY) Mesa, AZ Grid DM43cj

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Marcus Leatham" <leatham@nortel.ca>  
Subject: [7765] re:Music  
Message-ID: <199701021908.0AA263165@nss2.CC.Lehigh.EDU>

Ron:

The A below middle C is 440 Hz. (A-440)  
The frequency of any arbitrary note can be found using:

$$F = 440 * 2 ^ { (n/12)}$$

(F equals 440 times 2 to the (n/12)th power)

n is the number of half-steps relative to A-440.  
Notes above A-440 use positive n.

Notes below A-440 use negative n.  
For instance, Middle C is 3 half steps above A-440.  
 $F (\text{middle C}) = 440 * 2 ^ { (3/12)}$

This is such a hassle. Electronic tuners are real common and cheap these days. I have a KORG tuner which is the size of a cassette box, fits in my trumpet case, runs a couple years on a single AA battery, and tunes anything with its built-in mic and a jack provided for guitar pickups. Why not just buy one of these tuners for yourself and get it over with? If you can afford a good instrument, you can afford a good tuner.

Of course, there's nothing wrong with doing it with the freq counter. That will work.

And, of course, as I was told: Learning to play well comes 1st!

See Ya,  
Marcus KR5N

In message "Music", you write:

>Hi All,  
>  
>A bit off topic, so delete now if you like!  
>  
>Has anyone used a little preamp from a mic to  
>a freq counter to tune a Banjo?  
>  
>If that idea will work, what is the frequency of  
>D below middle C?  
>  
>Thanks for any help, and for the BW. cul,  
>  
>73, Ron,  
>  
>.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
>....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
>....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....  
>

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Marcus Leatham" <leatham@nortel.ca>

Subject: [7778] Re: Music

Message-ID: <199701022018.PAA118121@nss2.CC.Lehigh.EDU>

Ron:

OK, I received a couple notes saying that the  
A \*above\* middle C is 440 Hz. I stand  
corrected. Sorry, Ron.

The formula still holds.

$$F = 440 * (2 ^ (n/12))$$

Also, I'm glad to hear you have a KORG tuner.  
They are really nice. Prices are coming down.  
I got mine 5 yrs ago for \$75. Yours was \$37.50  
I think you said.

We've skipped orchestra practice the last couple  
of weeks due to the holidays and I can't wait to  
get back to playing!

Regards,  
Marcus.

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997

From: Patrick Taber <ptaber@logiccraft.com>

Subject: [7780] re:Music

Message-ID: <1.5.4.32.19970102202117.009b950c@freebird>

>The A below middle C is 440 Hz. (A-440)

>The frequency of any arbitrary note can be found using:

>

>
$$F = 440 * 2 ^ (n/12)$$

>

[...]

>Of course, there's nothing wrong with doing it with the freq  
>counter. That will work.

The only reservation I would have about using a frequency counter and a  
formula for calculating the frequency of interest is that there would be a  
misplaced sense of needing to get the frequency dead on. Tuners have a bit  
of hysteresis (percentage of allowable error) that is more in keeping with  
the way things work in the physical world. (It's kind of like digital  
watches: when I was a kid, the shortest distance between two quick slaps to

the head was answering "11:59" instead of "Noon" when someone asked what time it was. 11:59 is more precise, but it isn't As Right.)

Buy the tuner.

>>>==>PStJTT

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: talljazz@teleport.com (Dan Presley)  
Subject: [7781] Re: No FOX heard  
Message-ID: <v01530505aef083109454@[206.163.124.17]>

>Gang,  
>I listened carefully for 2 hours & heard nothing of W8KC nor anyone  
>calling him! Between .035 & .040 I heard Digital stuff at about .036, the  
>"S" beacon at about .038, SSB and teletype at about .039, and lots of  
>"local" QRM. BTW, .040 to .045 was relatively clear here, as usual. Is  
>this area a problem in other parts of the country?  
>72, Dave, W6EMD  
Same problem up here in Or. No fox, lots of digital garbage. Usually 040 to  
045 clear, with no one on.  
Dan N7CQR

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [7719] Re: NORTEX Meeting Invitation  
Message-ID: <199701020606.GAA27422@chuck.dallas.sgi.com>

Gang,

W5ISZ's note for Saturday's meeting. Channel 4  
film crew will be there. You might wanna consider that  
we may be on the news at 6 and 10pm.

dit dit

SIG

Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50  
EMPS QS0s=109 STATES(w/c)=34/2 DX=0

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Bob Roach <KE4QOK@worldnet.att.net>  
Subject: [7767] Re: Other services (was: QRO CBers)  
Message-ID: <19970102191003.AAA14871@LOCALNAME>

At 05:32 PM 1/2/97 +0000, you wrote:

>CB seems to do what it was intended to do. Does ham radio?

>

>CB should be a fertile recruiting ground for ham radio, for people who  
>get a taste of radio and decide they want to know more.

I agree with both of these statements. The problem has always been a few "bad apples" who come in all frequencies and all power level. If we "pick" the good apples and ignore the bad ones we'll end up with a basket full of good apples. I probably wouldn't be a ham if everyone used stereotype to decide who they help. My elmer has no interest whatsoever in QRP but here never hesitates to answer my questions and "humor" my interest, which, is how it should be.

(o o)

-----o00\_( )\_00o-----

73 es TNX

KE4QOK Real radios glow in the dark.

Bob Power is no substitute for skill.

If it stayed up last winter, it was too small.

136 Hermitage Rd.

Newport News, Va. 23606 KE4QOK@worldnet.att.net

(757)930-0348

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [7724] Re: QRO CBers  
Message-ID: <Pine.SUN.3.90.970101225039.7263B-1000000@vortex.sage.dri.edu>

On Wed, 1 Jan 1997, Scott Bauer wrote:

> Enough is

> enough!!!! I drive a truck for a living, give me a break, PLEASE.

Amen, from an ex trucker!

> Try one time to pass the test

> for a Commercial drivers license with all of the endorsements needed to

> operate one of those trucks, Im willing to bet you would fail, even if  
> you studied for the test.

Ah, good show! (And for all you non truckers out there, he's not just blowing smoke! Don't forget, all the rules are state, not fed....that means you must know things like bridge law for each of the 48 states.... which ones tax you on the fuel you carry through the state in your fuel tanks.....which high wheel tax states to avoid...etc)

> In fact I know you would fail, there is no  
> Help button on the dashboard!!!!

Right on! But guess who gets the blame for ANYTHING that happens!

> Scott W3CV my flame suit is on

Well, guess maybe I better get mine on too! Then again, at my age, why should I care about a little heat! :-)

Have a safe one,

(Old NACA driver)

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Roy G. Jackson" <rjackson@adsnet.com>  
Subject: [7734] Re: QRO CBers  
Message-ID: <199701021151.FAA06800@alice.adsnet.com>

I can't help but wonder if all the animosity toward CB'ers isn't caused by so many hams getting their start with CB and not wanting to admit it. Perhaps it is just a matter of wanting to jump on the band wagon. I am not ashamed to admit that my radio start was with CB. I met some very good-hearted folks who were always willing to lend a helping hand. I remember a baby being born in Michigan (I think, it's been a

while) who was allergic to milk and baby formula. The word spread by CB over a three or four state area until enough goat milk was found to supply the infant. Once when I was stranded in a snow storm, a call on the CB brought a fellow that I had never met to my aid. This guy was on his way home from a two week stint with the Reserves, but ended up spending about three hours helping me get home. I could go on, but I would just be laboring the point. Granted there are a few bad apples, just as there are in ham radio (I think 75 meters and 14.315 have been given as examples before). There are also a few misguided souls who maybe don't understand the radio spectrum as well as hams do. For the most part I think an awful lot of good people take a bad rap for a few loud mouths. I know a ham who is a contester and built himself a 5 kW amplifier because, "it would just be loafing along at the legal limit." Yeah, and pigs can fly, too. Let's get off our high horses and lighten up a bit.

My 2 cents worth, and I am unaffected by verbal flames so don't bother.

Roy G. Jackson                      Amateur Station NY9B  
Michigan City, IN.  
E-mail: rjackson@adsnet.com (Home)                      ny9b@hotmail.com  
usbscwrc@ibmmail.com (Work)  
(Novelty)  
ARRL      QRP-L #447

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "Laura" <sputnik@imt.net>  
Subject: [7747] Re: QRO CBers  
Message-ID: <199701021534.IAA08276@cu.imt.net>

Scott wrote, in part: " I have been reading quite a bit of jabber for the last few days from "comedy central" about the hillbilly truckers and cb radio. Enough is enough!!!! I drive a truck for a living, give me a break, PLEASE. Every..."

Scott and the group:

No need for the flame retardant suit with me, Scott. I've been married to a Trucker for just about 12 years now. Rode with him many years. I have a real soft spot in my heart for truckers and couldn't agree more with you that the portrayal of truckers as "red neck hillbilly idiots who cant speak english and don't bathe" is not only highly exaggerated but insulting. Yet

it's an American icon and I'm not sure why. I can tell you that I have many trucker friends who are also ham radio operators, (several QRP!) and not ONE of them operates with illegal power or without a ticket. As a matter of fact, they are some of the nicest, most polite operators I know. My husband no longer drives, he went back to being a diesel mechanic (he's an ASE certified Master Technician). He finally got his ham ticket after I prodded him for years (I couldn't help it!).

BUT - I do know of some truckers that do deserve the reputation attributed to them, as I'm sure you know of some too! I also know that many of the illegally powered, non-licensed operators out there are IN THE BIG RIGS! The point is (as in all aspects of life) not to judge the whole by the few, right Scott?

73 de KJ7UN, Laura

Laura Marino Lubner - Reese Creek Montana USA  
sputnik@imt.net <http://www.imt.net/~sputnik>  
GHRC / ARRL / 10-10 / FISTS / MARC / QRP-L # 790

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>  
Subject: [7773] RE: QRP Power Levels  
Message-ID: <56550.owen@apollo.eeel.nist.gov>

In message 02 Jan 1997 14:07 EST, "Marcus Leatham" <leatham@nortel.ca> writes:

>  
> If 73 means "best wishes", 72 means "almost  
> best wishes"? :-) You can ignore this one; I  
> am just poking fun!

>  
> Regards,  
> Marcus KR5N  
>

Watch it! You're getting close to treading on dangerous ground, Marcus. You didn't get MY permission to LIBLE #72. It could also mean "Almost QRP". Anyway Happy New Year and many 72. Jim K4CGY qrp-l #72

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: George Doster <doster@umr.edu>  
Subject: [7742] Re: Radio Shack DSP  
Message-ID: <199701021417.IAA23431@hermes.cc.umd.edu>



Hello,

I've got a DSP-40. Had it for a few months. I wouldn't trade it for anything. Since my receiver doesn't have a CW IF filter the DSP is wonderful. I've never had any problem with sufficient audio output. I've always had plenty of volume with knob around '5'. However I've noticed that when I use a pair of stereo headphones I have trouble getting enough volume. I have not looked but I'll bet the output is looking for an 8 ohm speaker and my headphones are probably a high impedance set. Maybe you are doing the same thing? Anyway I'll probably build an audio transformer for it sometime soon.

Best of luck  
Jay

At 07:50 AM 1/2/97 CST, you wrote:

>Howdy gang,

>

>I have had a Radio Shack DSP-40 now for several months and am pretty  
>happy with it's performance. The user's manual states an audio output  
>of 6 watts. The audio output on mine is quite low but not distorted. My  
>1 watt Radio Shack audio amp is louder than the DSP! I'm about ready to  
>take it back to Radio Shack for repair but before I did that I thought I  
>would ask those of you on this list that have one if this is this  
>normal.

>

>72/73

>

>Don Doyle AC5II

>Broken Arrow, Oklahoma

>ARCI QRP #9134, NORCAL QRP #1702, QRP-L #264, AR QRP #24

>Packet: AC5II@N50BC.USA.NEOK.NA

>E-Mail: AC5II@juno.com

>

>

>

George Jay Doster	doster@umr.edu	NOPMY
QRP-L #739 WAS: w/c 4/0	EMPS w/c 2/0	
Doolittle, MO	Phelps County	37 56' 25" N
	Grid EM47bw	91 52' 51" W

Disclaimer: All spelling mistakes are my own and not Webster's.

From owner-qrp-l@Lehigh.EDU Thu Jan 2 18:03:18 1997

From: "Dennis L. Edinger" <dedinger@ecentral.com>

Subject: [7793] Re: RS-40 Hash???

Message-ID: <32CC4DE7.585A@ecentral.com>

George Doster wrote:

>  
> If I remember correctly the 12V output on the VFO is not very clean.  
> Maybe it's the cause of the hash. Try a filter cap or another power supply.  
>  
> Jay  
>  
> At 02:35 PM 1/2/97 -0800, you wrote:  
> >Back when, I bought a RS-DSP-40 for my son for Xmas. When we put it on  
> >his Kenwood 520 (using the external VFO for 12v power--black to chassis  
> >ground), the unit generated an intolerable amount of hash.  
> >  
> >Have any of you guys had a similar problem? Do you have possible  
> >solutions or points to check?  
> >  
> >de Dennis/w0gd qrp-l #482  
> >  
> >  
> George Jay Doster doster@umr.edu N0PMY  
> QRP-L #739 WAS: w/c 4/0 EMPS w/c 2/0  
> Doolittle, MO Phelps County 37 56' 25" N  
> Grid EM47bw 91 52' 51" W  
> Disclaimer: All spelling mistakes are my own and not Webster's.

Jay,

You and Marshall Emm, AA0XI, both sent me on the right track. I inadvertantly "listened" to my 12.6v source and found it was poorly rectified. I then checked the RS-40 guidelines (no schematic from RS!!!) and found it would accept 9v. I reasoned that the actual power for the external VFO (which I don't have) would be cleaner, so I tapped the 9.6 jumper in the external VFO circuit.

Now the RS-40 works find and my son Jason (KB0ZES) and I have a new toy to play with. More importantly, as a two week old ham, he learned that no question is too dumb and that you can look and listen to your circuits. As I pointed out what I intended to try, this tech-plus said: "Dad, you mean the 12v circuit was poorly rectified?"

I don't know for sure which was the real problem, the excess power or the poor rectification or both. I do know that it is solved with the help of a few good "Elmers".

de Dennis/w0gd

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: ka0yos@arn.net  
Subject: [7709] Re: Soldering Equipment  
Message-ID: <199701020424.WAA16261@arnet.arn.net>

>I'm wondering if anyone has experience or recommendations for any of  
>the following soldering stations, particularly their adaptation for soldering  
>circuit board level kits and the availability of tips and accessories. The  
>models that I have been looking at are all Weller units, models 921ZX1,  
>EC1002-1 and WCC100. Any accounts of experiences with other similar  
>units would be appreciated.

>  
>Dennis B. Dolle, NX5W  
>  
Dennis,

I have a 921ZX1 at work. It is AWSOME!!!! I wish my wife would  
let me get one for home.

72/73,  
Joe ka0yos

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Ed Tanton <n4xy@avana.net>  
Subject: [7697] Re:Truckers VS QRO CBers  
Message-ID: <3.0.32.19970101215615.00971720@tiger.avana.net>

Hi Scott... I regret that SOME people here are confusing issues. It may be  
that some truckers are using QRO CB rigs... the occupations of those people  
(running QRO) have nothing to do with the issue of RF spectrum abuse. In  
case no one has noticed, this country-and the rest of the civilized  
world-has changed from shipping most of its goods by rail to shipping by  
truck. Personally, I appreciate the job you-and your cohorts-do, and wish  
you and your family a belated Merry Christmas and Happy New Year!!!

At 08:36 PM 1/1/97 -0500, Scott Bauer wrote:

> Sorry for the bandwidth folks. You can hit delete if you have no desire to  
>read on.  
> I have been reading quite a bit of jabber for the last few days from  
>"comedy central" about the hillbilly truckers and cb radio. Enough is  
>enough!!!! I drive a truck for a living, give me a break, PLEASE. Every  
>body has to do something for a living. Try one time to pass the test

>for a Comercial drivers license with all of the endorsements needed to  
>operate one of those trucks, Im willing to bet you would fail, even if  
>you studied for the test. In fact I know you would fail, there is no  
>Help button on the dashboard!!!!

>  
> Scott W3CV my flame suit is on

>  
>  
>  
>  
>  
>  
>  
>  
>

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX  
189 Pioneer Trail  
Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140  
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA  
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-1@Lehigh.EDU Thu Jan 2 18:03:18 1997  
From: Dan Halbert <halbert@BBN.COM>  
Subject: [7783] Re: [7582] Antennas!!!!!!  
Message-ID: <199701022123.QAA06120@halite.Diamond>

>From: cjsterl@ix.netcom.com (Craig J. Sterling)

>

>1) Center feed antenna with 450 OHM Ladder-Line directly into tuner or  
>use a remote 4:1 balun ouside window and use coax jumper to tuner,  
>rather than struggle with trying to bring the 450 OHM thru a window?

Getting 450-ohm line through a window is not so hard if it is a sash window.  
You can make a sandwich of polystyrene foam at the bottom of the window,  
threading the line in between that, and then wedge the window closed  
at the top. Watch for air leakage at the gap between the top and bottom  
part of the window.

Alternative: I run 450-ohm line outside the house, then quality 300-ohm

line (Radio Shack "best") into the house. Radio Shack sells through-wall tubes for doing this. Sure, there's an impedance bump, but so what? It just looks a little different to the tuner.

Watch out for the joint between the 450-ohm and 300-ohm line. Mine flexed, got water in it, and broke after a few years. It might be good to immobilize it by taping a stick parallel to the wires across the splice:

```

          .....stick.....
450 ohm  -----===== 300 ohm
          -----/
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Dan Halbert, KB1RT